

INSTRUMENTATION & RECORDING CAMERAS

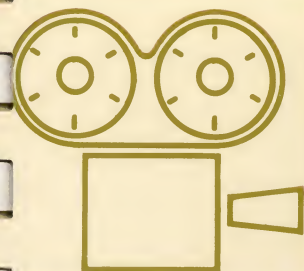


PHOTO-SONICS, INC. 820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

PRECISION, HIGH-SPEED, 16, 35, & 70MM MOTION PICTURE CAMERAS

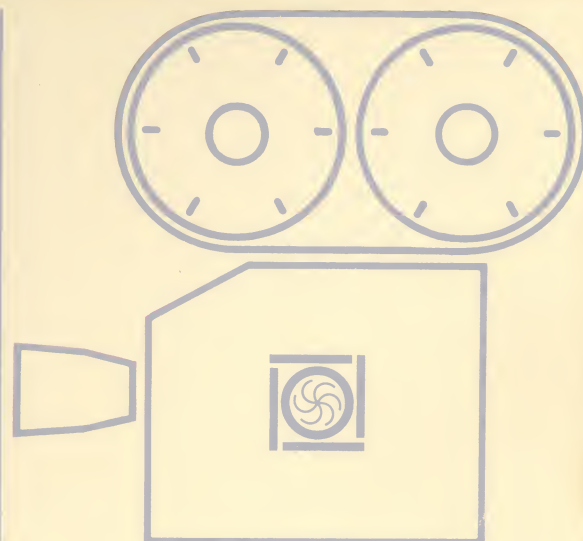


PHOTO-SONICS, INC. PRESENTS IN THE FOLLOWING PAGES THE DESCRIPTIONS, DATA, AND PRICES OF A COMPLETE LINE OF PRECISION MOTION PICTURE CAMERAS FOR PHOTO INSTRUMENTATION USE. EACH CAMERA HAS BEEN DESIGNED TO MEET SPECIFIC DATA RECORDING REQUIREMENTS.

THE CAMERAS PRESENTED, THEREFORE, OFFER THE INSTRUMENTATION ENGINEER IN EQUIPMENT OF PROVEN PERFORMANCE, A WIDE CHOICE OF APERTURE PROPORTIONS, FRAME RATES, EXPOSURE VALUES, TOTAL RUNNING TIMES, AND OPERATIONAL CHARACTERISTICS IN 70MM, 35MM, AND 16MM FILM WIDTHS.

PHOTO-SONICS, INC. SPECIALIZES IN THE DESIGN AND MANUFACTURE OF PRECISION PHOTOGRAPHIC EQUIPMENT. WE WELCOME YOUR INQUIRIES ON THE CAMERAS PRESENTED OR ANY PROPOSED MODIFICATIONS OR ADAPTATIONS.

FOR PHOTOGRAPHIC DATA RECORDING REQUIREMENTS THAT CAN ONLY BE MET WITH A NEW DESIGN, WE ARE PREPARED TO HANDLE SUCH A NEW DEVELOPMENT FROM PRELIMINARY SPECIFICATIONS THROUGH FINAL PRODUCTION OF MULTIPLE UNITS.







16MM

The Photo-Sonics 16mm-1A Recording Camera is designed to withstand high accelerations and vibrations. It incorporates extremely rugged construction into a minimum package. The film is transported by a high precision movement and is held stationary during the exposure by means of registration pins.

Frame rate: 300 frames per second.

Aperture size: full frame 16mm.

Film specification: ASA PH22.5-1953.

Film capacity: 100 ft. daylight spool.

Shutter: fixed opening rotary disk, 72° maximum.

Film transport: intermittent with register pins.

Motor: 24 to 28 volt DC.

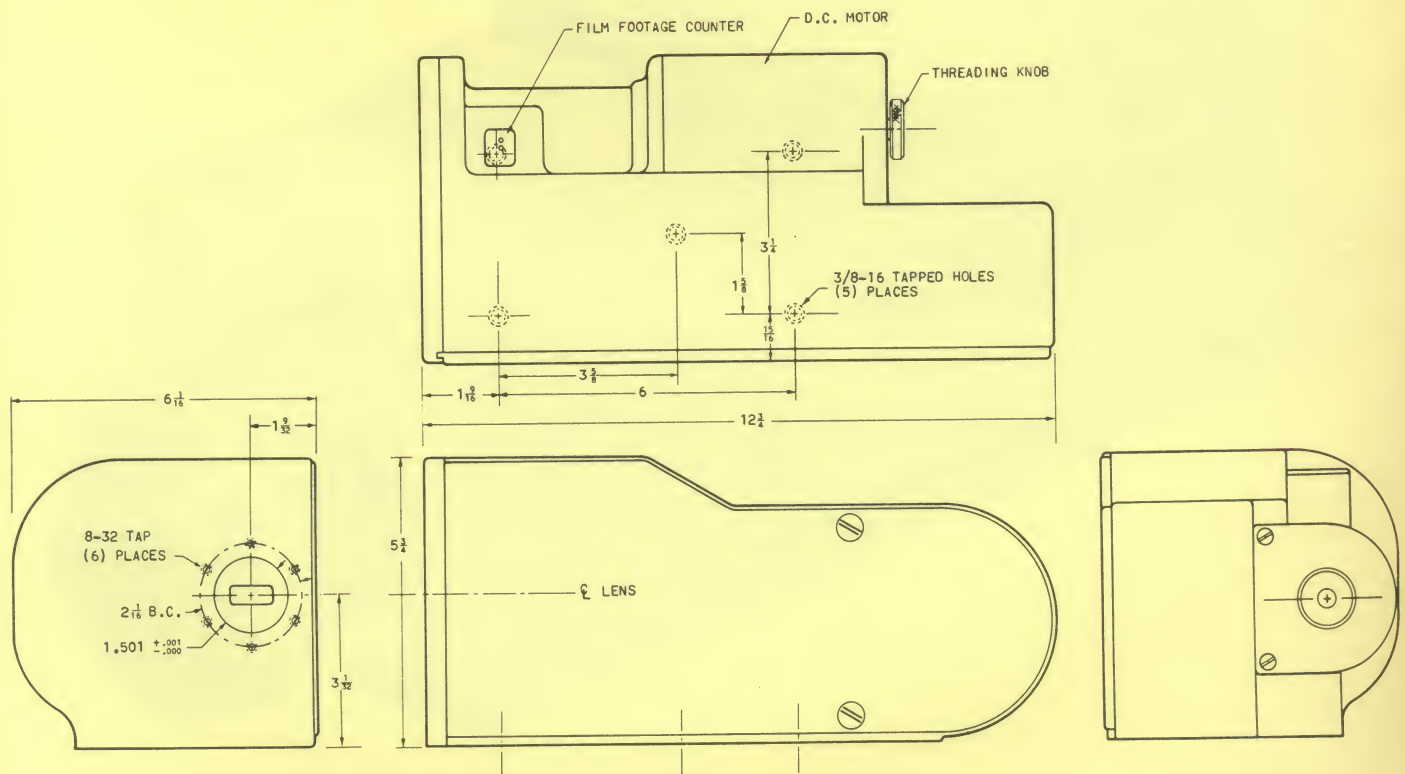
Weight: 25 pounds.

Mounting: base.

Standard equipment: buckle switch, runout switch, and footage counter.

Accessories: 2 light timer, boresight tool, carrying case, and spare shutter.

Lenses: see 16MM Lens Data Sheet.



Standard camera shown — dimensions subject to change without notice.

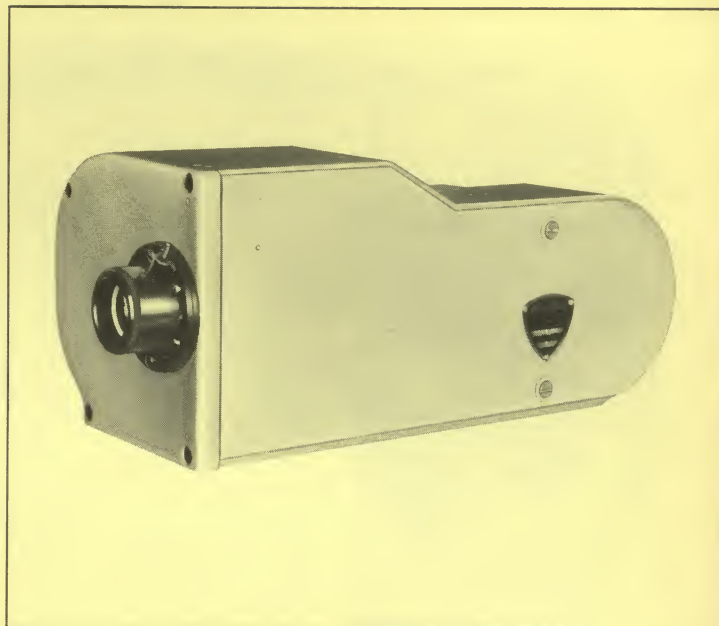
pins.

PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

16MM-1A CAMERA complete with standard equipment.....\$7,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

2 light timer	350.00
Boresight tool	250.00
Carrying case	45.00
Spare shutter	60.00



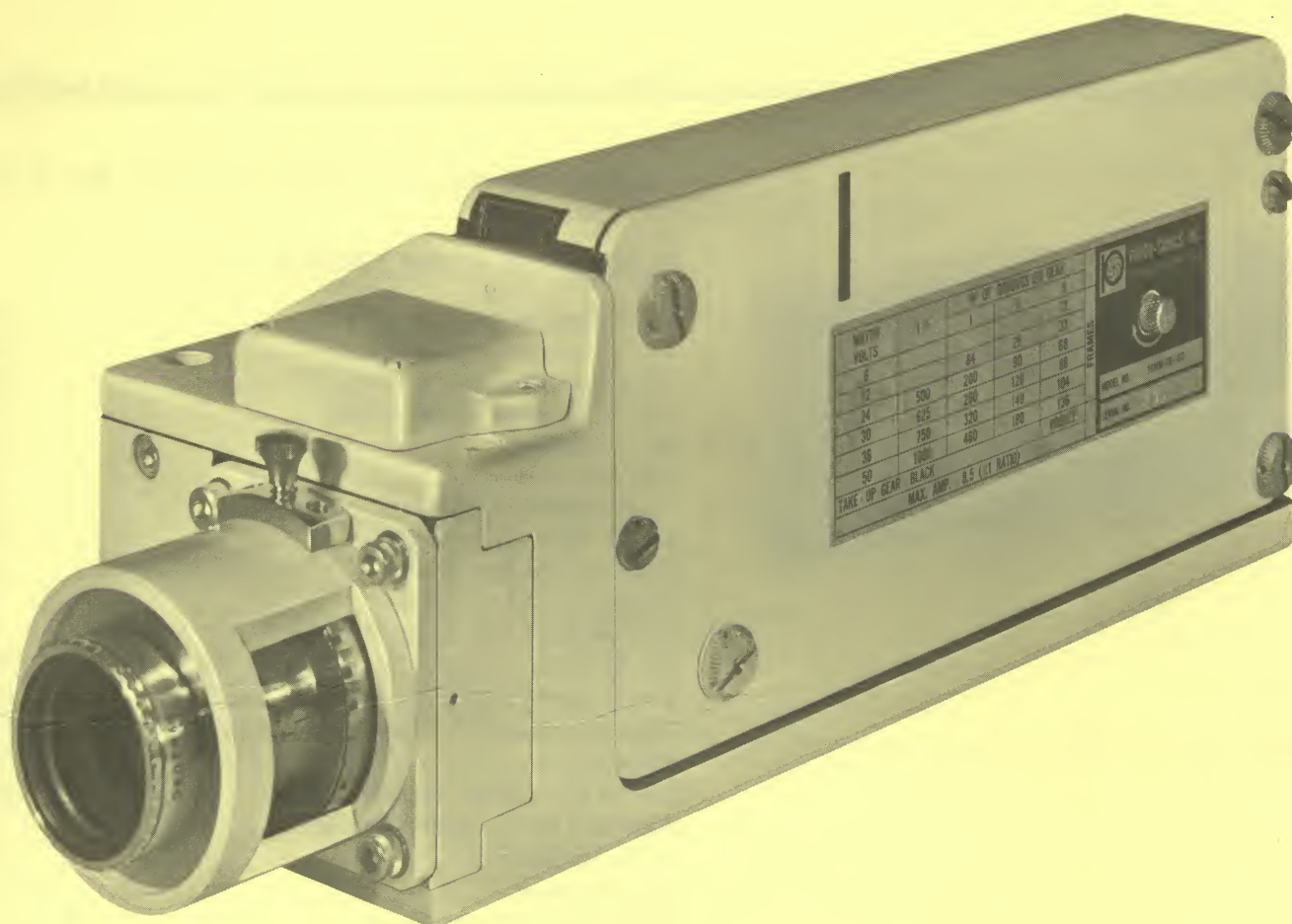
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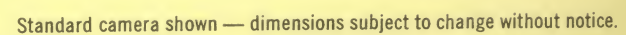
PHOTO-SONICS

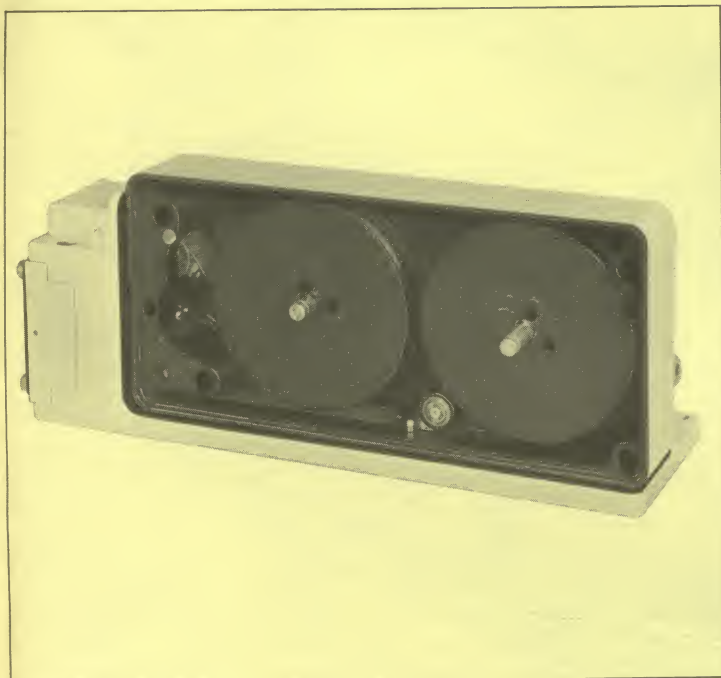
16MM-1A

16MM-1B

Rotary Prism RECORDING CAMERA







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16MM-1B CAMERA complete with standard equipment—DC Model.\$1,125.00

ACCESSORIES AND OPTIONAL EQUIPMENT

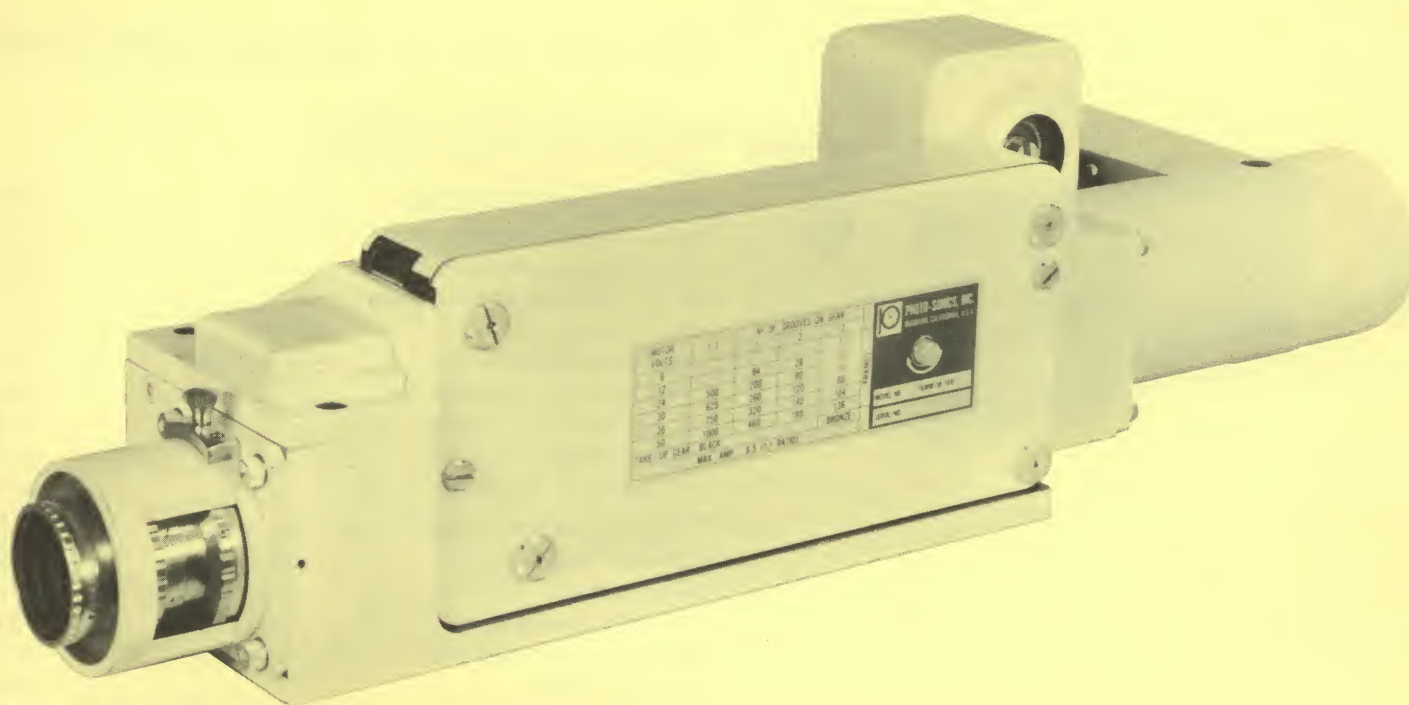
100 foot magazine (daylight load)	310.00
200 foot magazine (darkroom load)	350.00
400 foot magazine (darkroom load)	435.00
1200 foot magazine (darkroom load)	700.00
400 foot take-up	220.00
1200 foot take-up	335.00
10/20X straight boresight tool	175.00
10/20X right angle boresight tool	200.00
Right angle boresight adapter	35.00
Straight boresight tool adapter	10.00
Fixed shutters, 9, 18, 36, and 72 degrees	42.50 ea.
0 to 50 volt DC converter—110 volt, 60 cycle input	370.00
0 to 50 volt DC converter—115 volt, 400 cycle input	485.00
Two camera converter, 0 to 50 volt DC output, 110 volt, 60 cycle input	925.00
115 volt AC, 1200 foot magazine control box	375.00
Illuminated fiducial markers	500.00
AC auxiliary gear box.....	280.00
AC conversion kit.....	775.00
Ballistic sync. prism clamp.....	30.60
400 ft. magazine carrying case.....	45.00
1200 ft. magazine carrying case.....	51.25

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16MM-1B

16MM-1BAC

Rotary Prism RECORDING CAMERA



The camera utilizes a rotary prism for image compensation on film continuously in motion and the disk shutter immediately back of the prism serves to produce a more even exposure, higher resolution, and greater shutter efficiency.

Frame rate: 200, 400, 600, 800 and 1000 frames per second.

Aperture size: full frame 16mm.

Film specification: ASA PH 22.5-1953.

Film capacity: 100, 200, 400, 1200 ft. magazines.

Shutter: variable rotary disk,
9, 18, 36, and 72 degrees maximum.

Film transport: continuous.

Motor: 60 cycle, 115 volt AC.

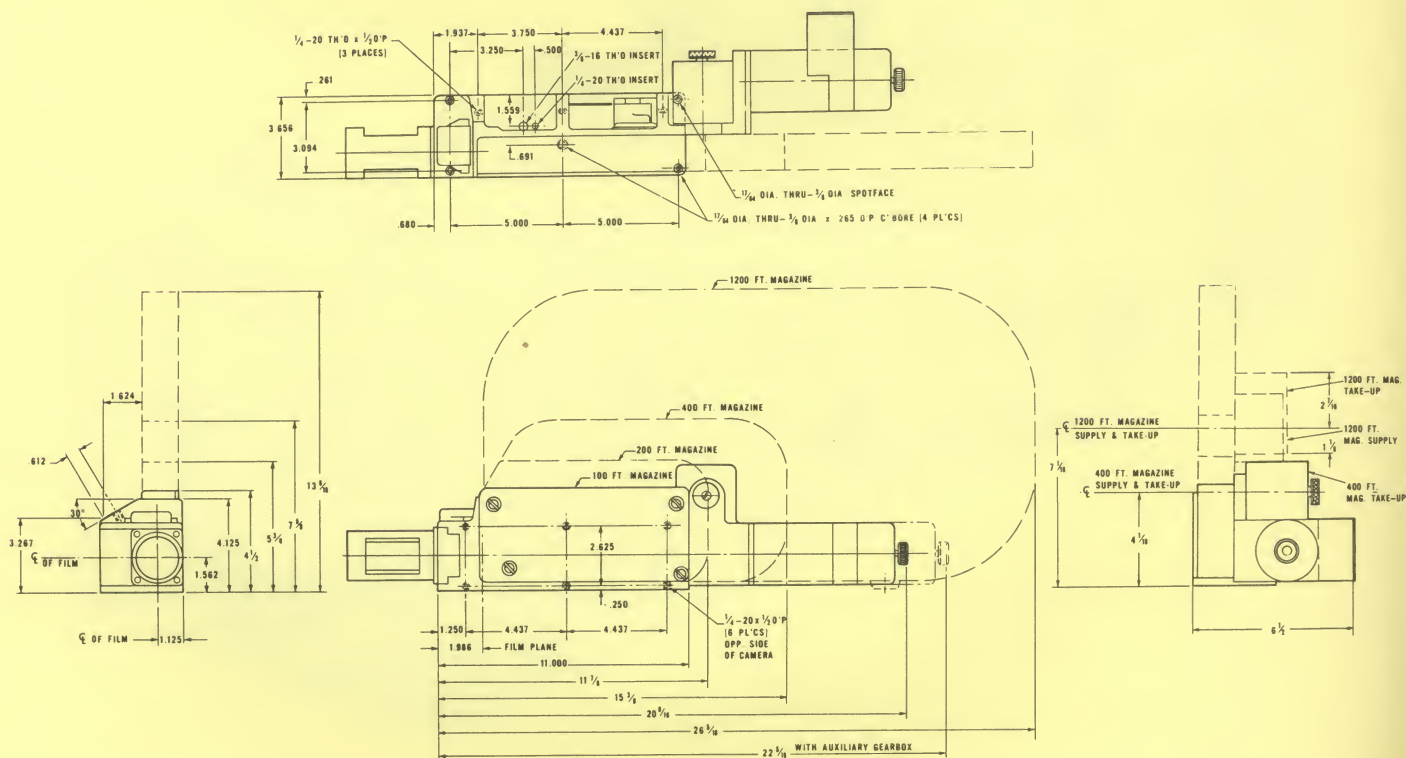
Weight: 18 pounds (with 100 foot magazine).

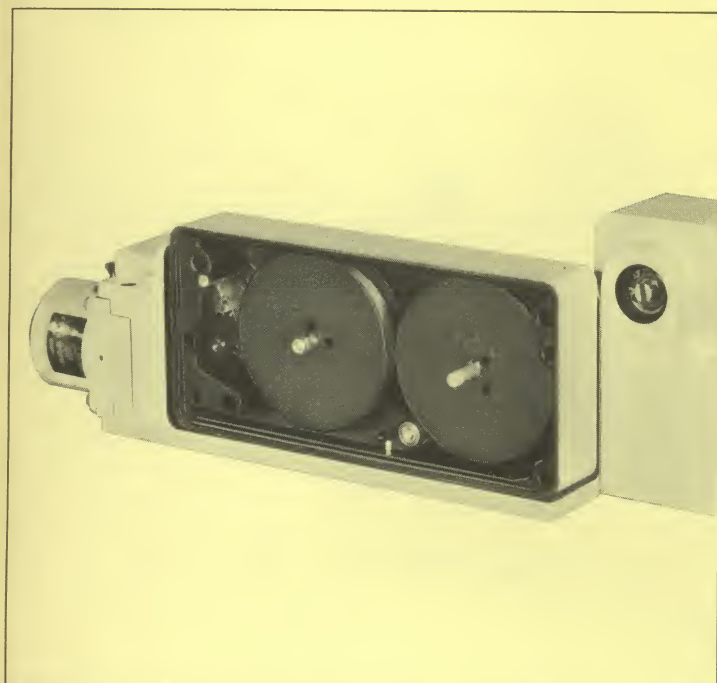
Mounting: top, bottom, or side.

Standard equipment: variable disk shutter, two timing lights, take-up gears, drive motor with five sets of reduction gears and built in 400 ft. take-up, lubricant, high acceleration magazine mounting screws, timing and power plugs, Fastax lens mounting screws, spanner wrench, and heater.

Accessories: combination right angle and straight boresight tool, 200, 400, and 1200 foot magazines, 1200 foot take-ups, AC control box, auxiliary gear box, and fixed shutters.

Lenses: see 16MM Lens Data Sheet.





PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

16MM-1B CAMERA complete with standard equipment—AC Model \$1,753.00

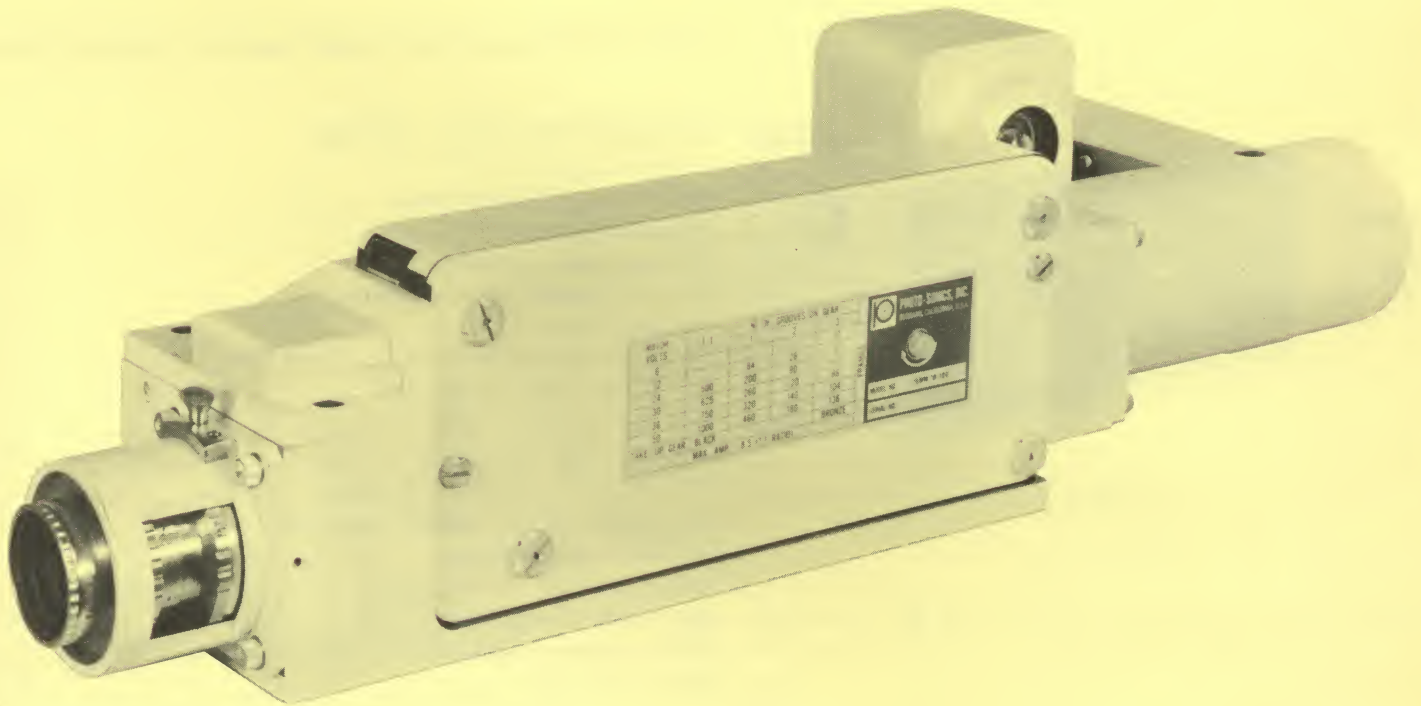
ACCESSORIES AND OPTIONAL EQUIPMENT

100 foot magazine (daylight load)	310.00
200 foot magazine (darkroom load)	350.00
400 foot magazine (darkroom load)	435.00
1200 foot magazine (darkroom load)	700.00
1200 foot take-up	335.00
10/20X straight boresight tool	175.00
10/20X right angle boresight tool	200.00
Right angle boresight adapter	35.00
Straight boresight tool adapter	10.00
Fixed shutters, 9, 18, 36, and 72 degrees	42.50 ea.
115 volt AC, 1200 foot magazine control box	375.00
Illuminated fiducial markers	500.00
*Auxiliary gear box	280.00
400 ft. magazine carrying case	45.00
1200 ft. magazine carrying case	51.25
Ballistic sync. clamp	30.60

*Auxiliary gear box not to be used with 1200 ft. magazine.

16MM-1BAC

Rotary Prism RECORDING CAMERA



The Photo-Sonics 16mm-1B Rotary Prism Recording Camera is designed for high speed motion picture photography and is capable of short run stop and start operations, as well as full capacity run.

The camera utilizes a rotary prism for image compensation on film continuously in motion and the disk shutter immediately back of the prism serves to produce a more even exposure, higher resolution, and greater shutter efficiency.

Frame rate: 200, 400, 600, 800 and 1000 frames per second.

Aperture size: full frame 16mm.

Film specification: ASA PH 22.5-1953.

Film capacity: 100, 200, 400, 1200 ft. magazines.

Shutter: variable rotary disk, 9, 18, 36, and 72 degrees maximum.

Film transport: continuous.

Motor: 60 cycle, 115 volt AC.

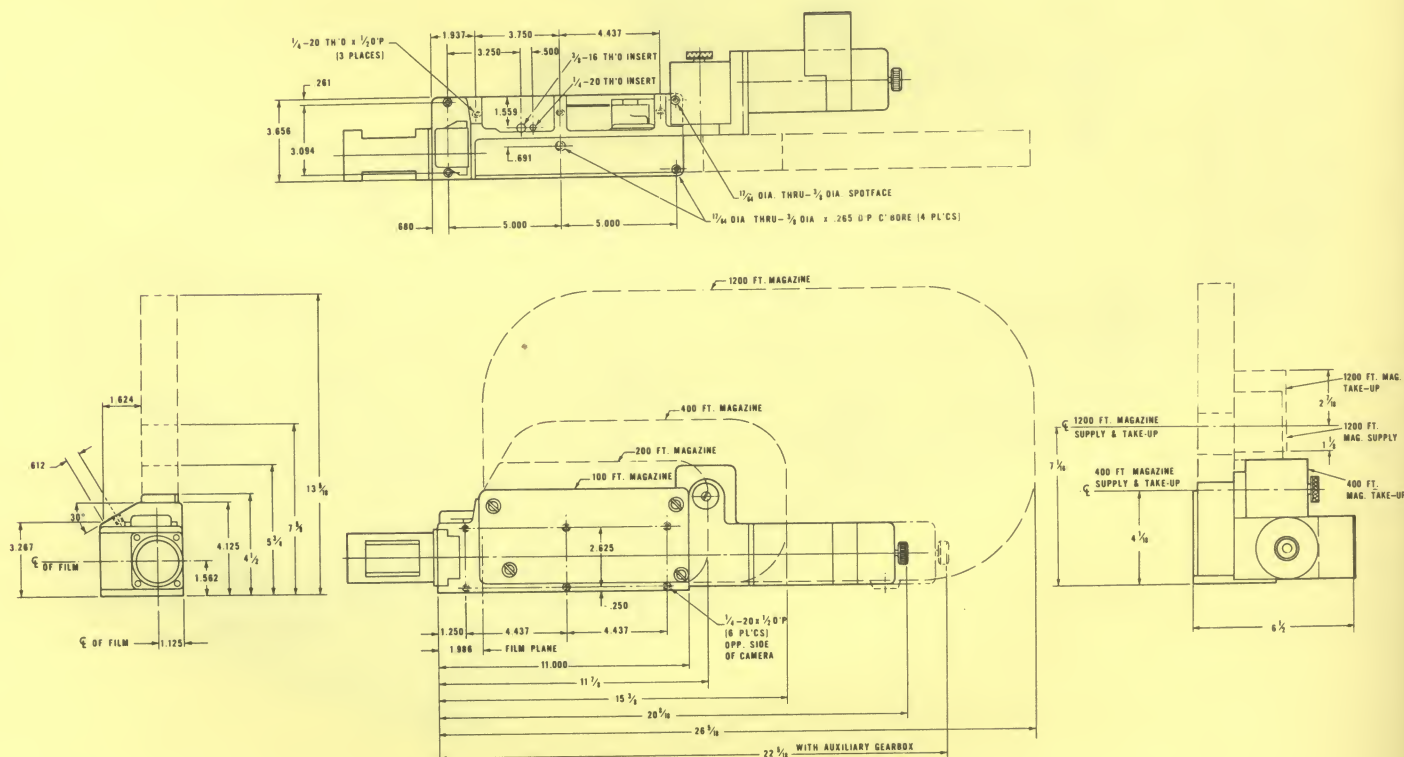
Weight: 18 pounds (with 100 foot magazine).

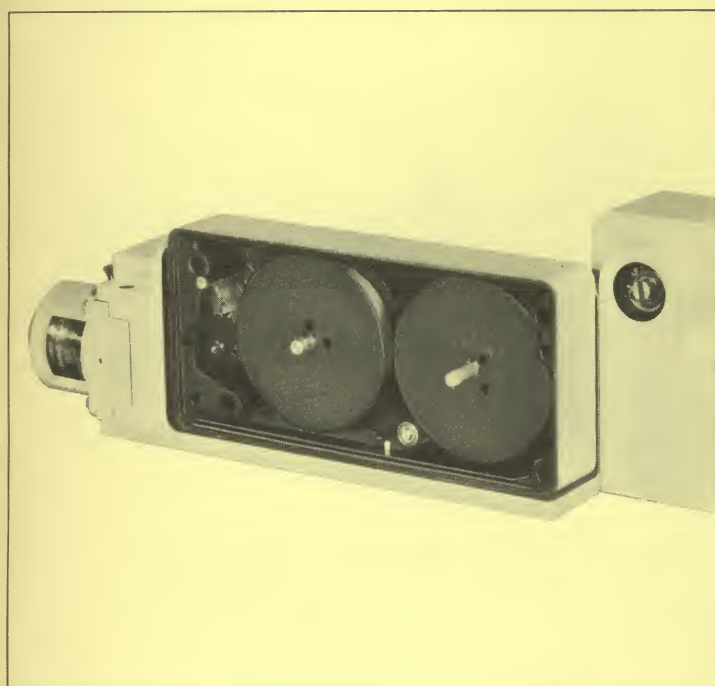
Mounting: top, bottom, or side.

Standard equipment: variable disk shutter, two timing lights, take-up gears, drive motor with five sets of reduction gears and built in 400 ft. take-up, lubricant, high acceleration magazine mounting screws, timing and power plugs, Fastax lens mounting screws, spanner wrench, and heater.

Accessories: combination right angle and straight boresight tool, 200, 400, and 1200 foot magazines, 1200 foot take-ups, AC control box, auxiliary gear box, and fixed shutters.

Lenses: see 16MM Lens Data Sheet.





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16MM-1B CAMERA complete with standard equipment—AC Model \$1,753.00

ACCESSORIES AND OPTIONAL EQUIPMENT

100 foot magazine (daylight load)	310.00
200 foot magazine (darkroom load)	350.00
400 foot magazine (darkroom load)	435.00
1200 foot magazine (darkroom load)	700.00
1200 foot take-up	335.00
10/20X straight boresight tool	175.00
10/20X right angle boresight tool	200.00
Right angle boresight adapter	35.00
Straight boresight tool adapter	10.00
Fixed shutters, 9, 18, 36, and 72 degrees	42.50 ea.
115 volt AC, 1200 foot magazine control box	375.00
Illuminated fiducial markers	500.00
*Auxiliary gear box	280.00
400 ft. magazine carrying case	45.00
1200 ft. magazine carrying case	51.25
Ballistic sync. clamp	30.60

*Auxiliary gear box not to be used with 1200 ft. magazine.

PHOTO-SONICS

16MM-1BAC

16MM-1C

Rotary Prism RECORDING CAMERA

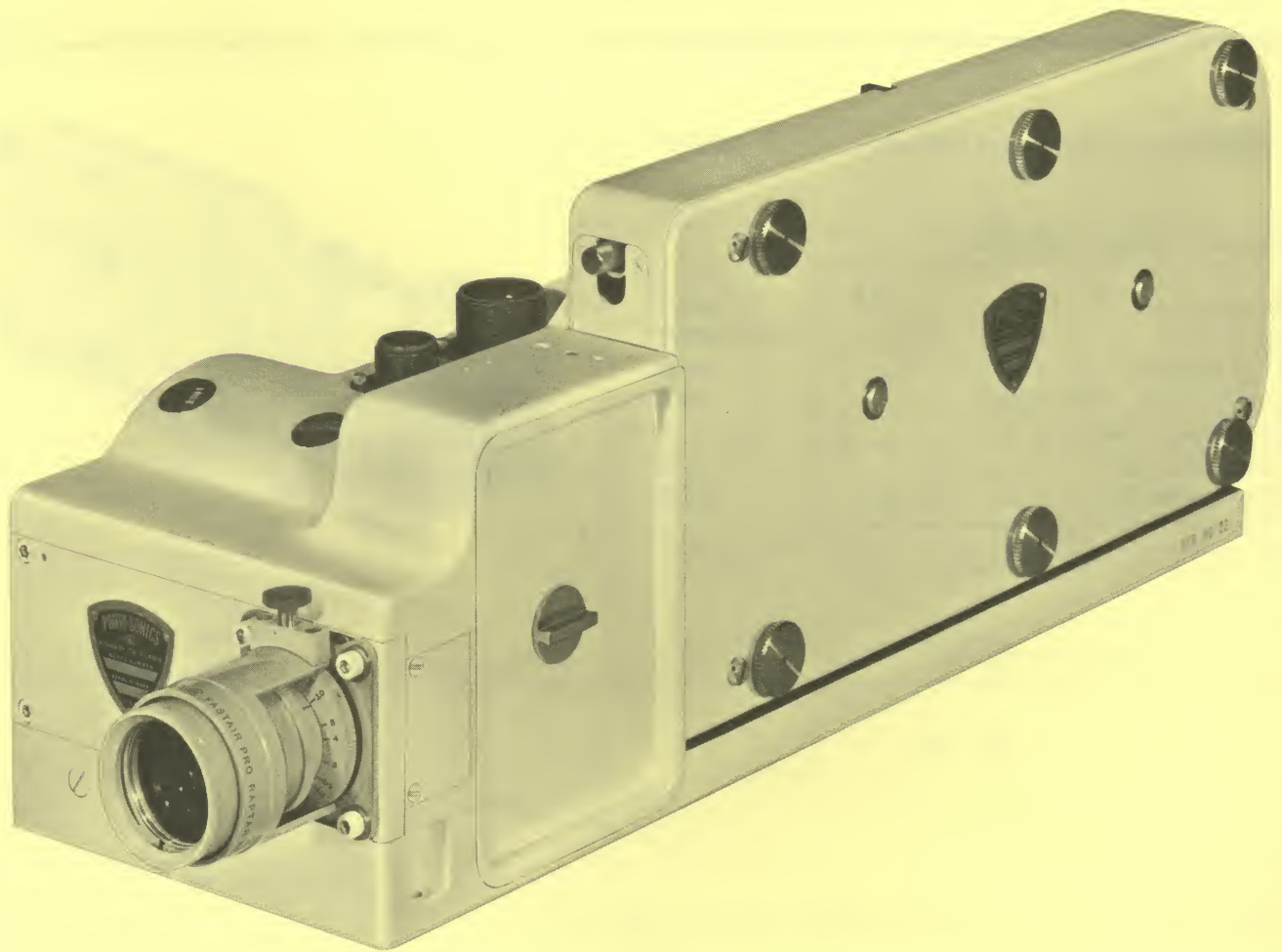


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 16mm-1C Rotary Prism Recording Camera is designed to produce high quality, high resolution motion pictures under conditions of extreme acceleration, temperature, and vibration. The 1C may be mounted in any position relative to the acceleration forces and the entire film load is used in one run.

The 16mm-1C camera uses a rotary disk shutter in conjunction with a rotary prism producing exceptionally even exposures and maximum shutter efficiency.

Frame rate: up to 4000 frames per second.

Aperture size: full frame 16mm.

Film specification: ASA PH 22.5-1953.

Film capacity: 400 foot magazine.

Shutter: interchangeable rotary disk, 72° maximum.

Film transport: continuous (rotary prism).

Motor: optional 28 volt DC or 48 volt DC or 115 volt AC.

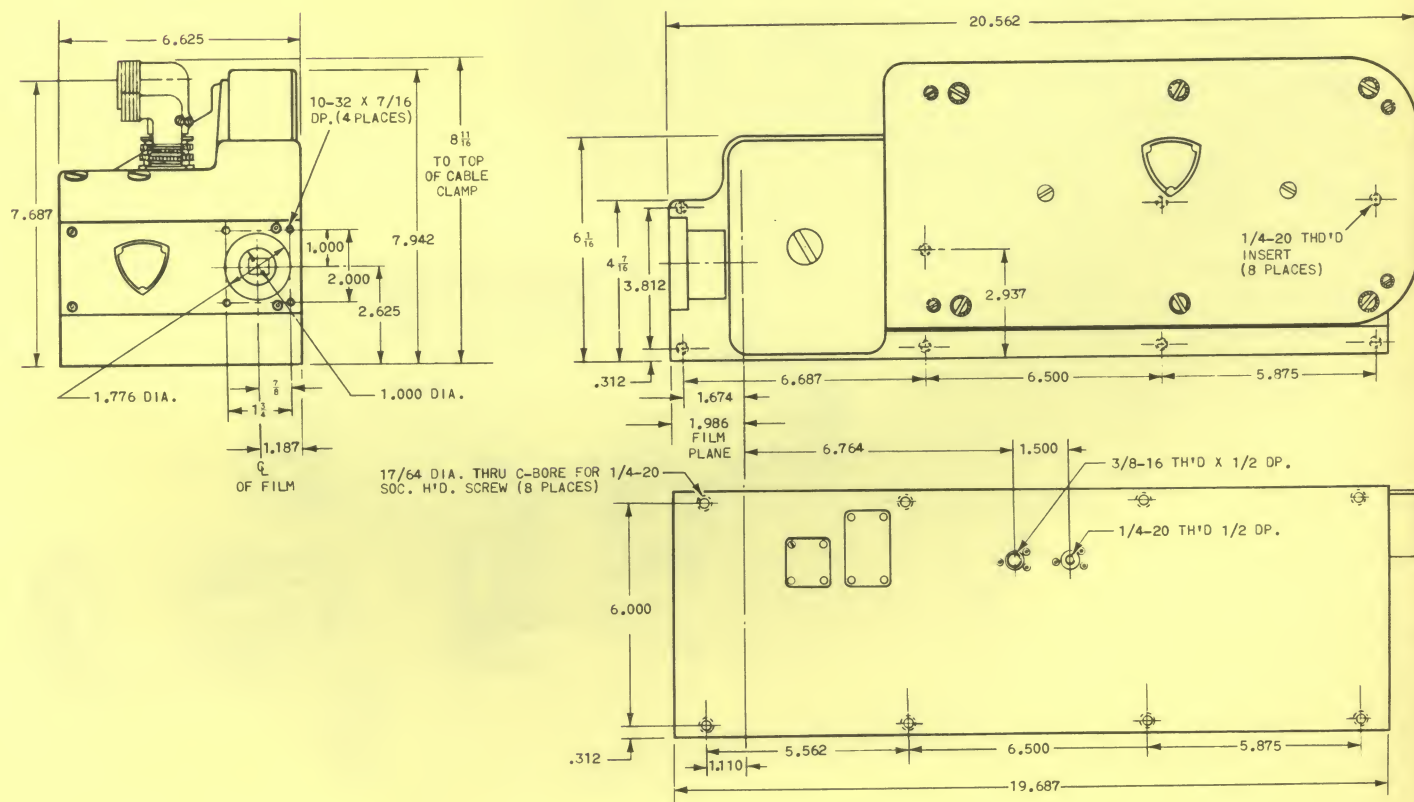
Weight: 41 pounds (with 400 foot magazine).

Mounting: side or bottom.

Standard equipment: 400 foot magazine, buckle switch, runout switch, 2 light timer, and heater.

Accessories: 10X boresight tool, extra shutters, carrying cases, and 115 AC control box.

Lenses: see 16MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

16MM-1C CAMERA complete with standard equipment\$5,500.00

ACCESSORIES AND OPTIONAL EQUIPMENT

115 volt AC control box	485.00
10X boresight tool	275.00
Spare 400 foot magazine	435.00
Spare shutters, 9, 18, 36, and 72 degrees	62.00 ea.
Camera and magazine carrying case	72.50
Two magazine carrying case	47.50
110 volt AC to DC control box.....	635.00

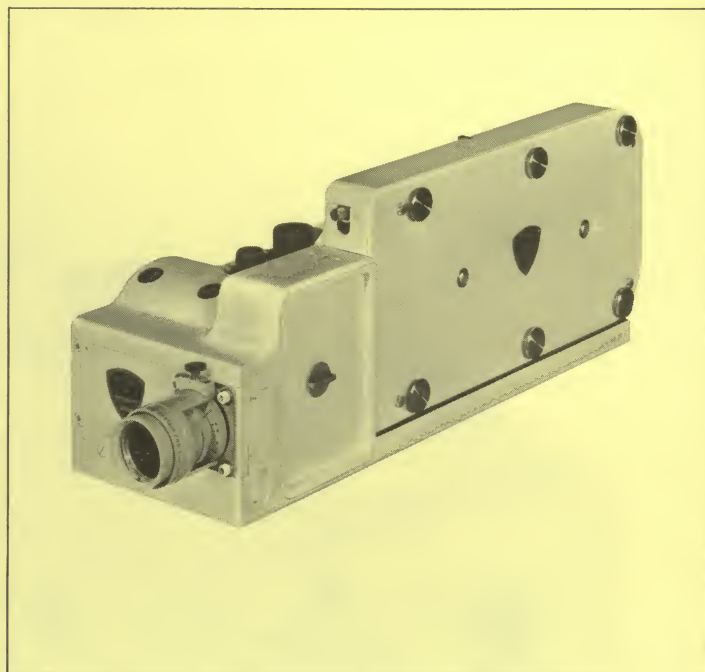


PHOTO-SONICS

16MM-1C

16MM-1D

Rotary Prism RECORDING CAMERA

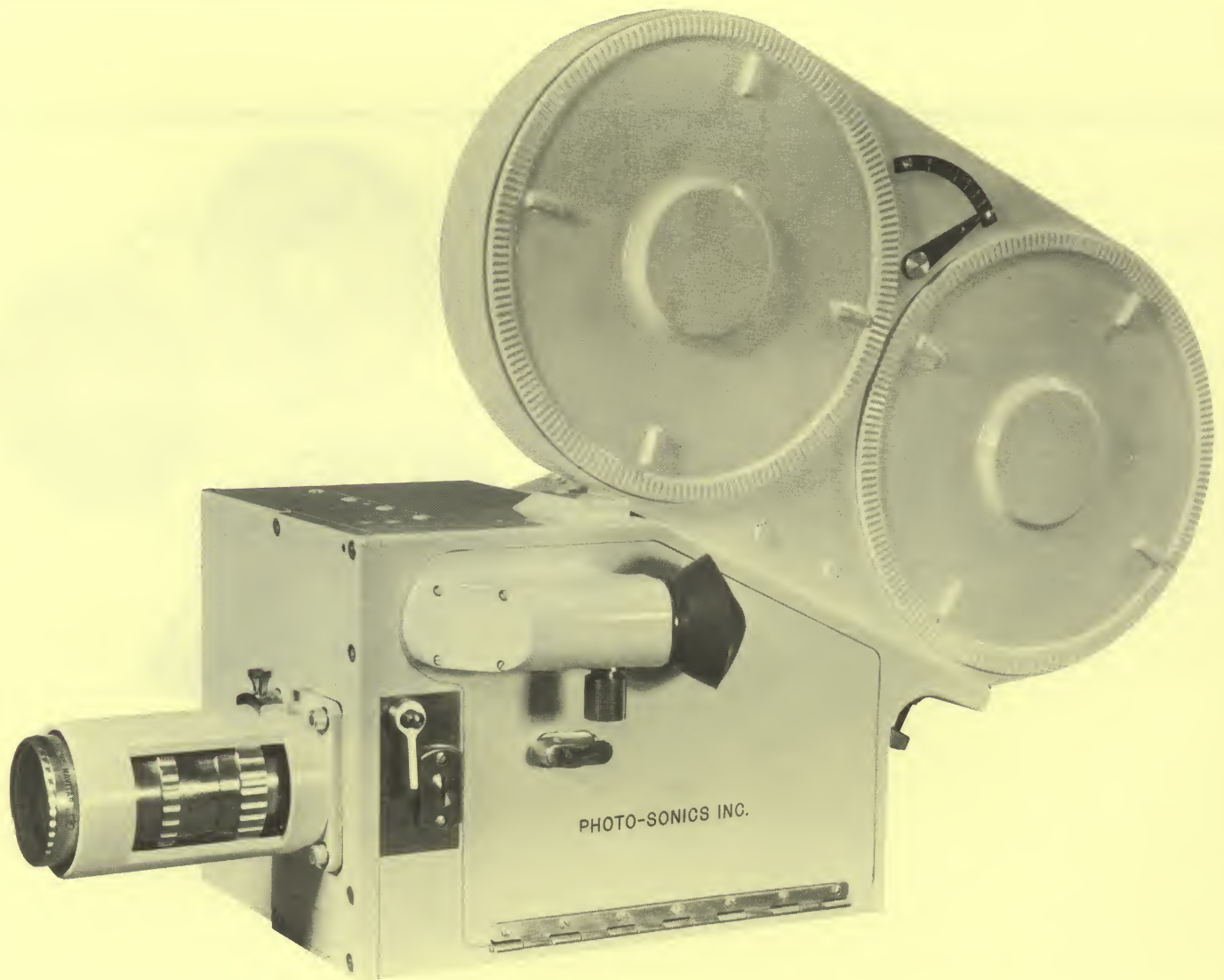


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The 16mm-1D camera uses a rotary disk shutter in conjunction with a rotary prism, producing more even exposure, higher resolution, and greater shutter efficiency.

Lenses: see 16MM Lens Data Sheet,
Elgeet lenses only.



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16MM-1D CAMERA complete with standard equipment\$7,900.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Spare shutters, 9, 18, 36, and 72 degrees	55.00
Control box, 115 volt AC	1,650.00
400 foot magazine	330.00
1200 foot magazine	850.00
Camera carrying case	90.00
400 foot magazine carrying case—will accommodate (2)	54.50
1200 foot magazine carrying case—will accommodate (2)	70.00

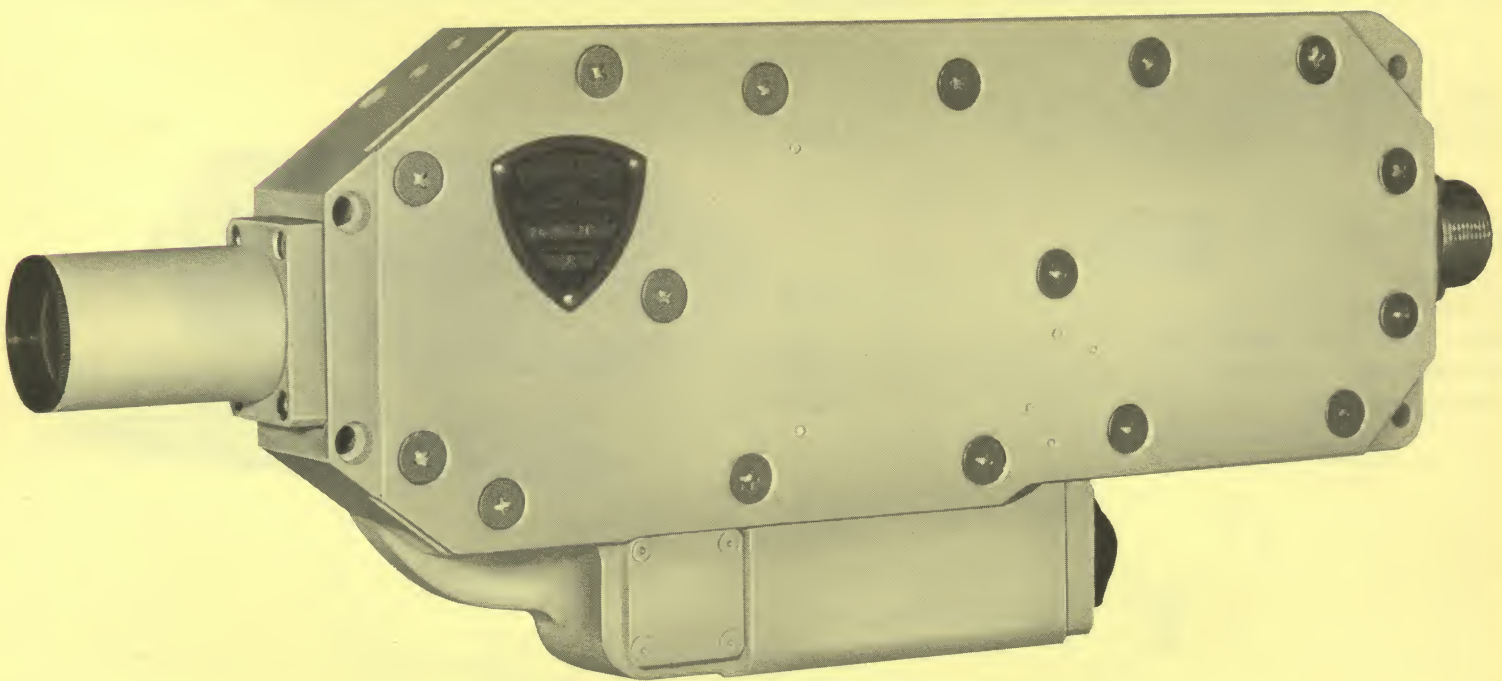


PHOTO-SONICS

16MM-1D

16MM-1F

Rotary Prism RECORDING CAMERA



Frame rate: 200 to 1000 frames per second.

Aperture: 16mm standard
ASA PH 22.5-1953, .296" x .410".

Film Capacity: 100 foot daylight load.

Film transport: continuous (rotary prism).

Drive Motor: optional 6 to 28 volt DC or 10 to 48 volt DC.

Weight: 9 pounds with film.

Width: 1-5/8 inches.

Height: 6 inches.

Length: 12-1/2 inches without lens.

Standard equipment: f/2.5, 13mm lens, runout switch, heaters, drive motor, timing lights.

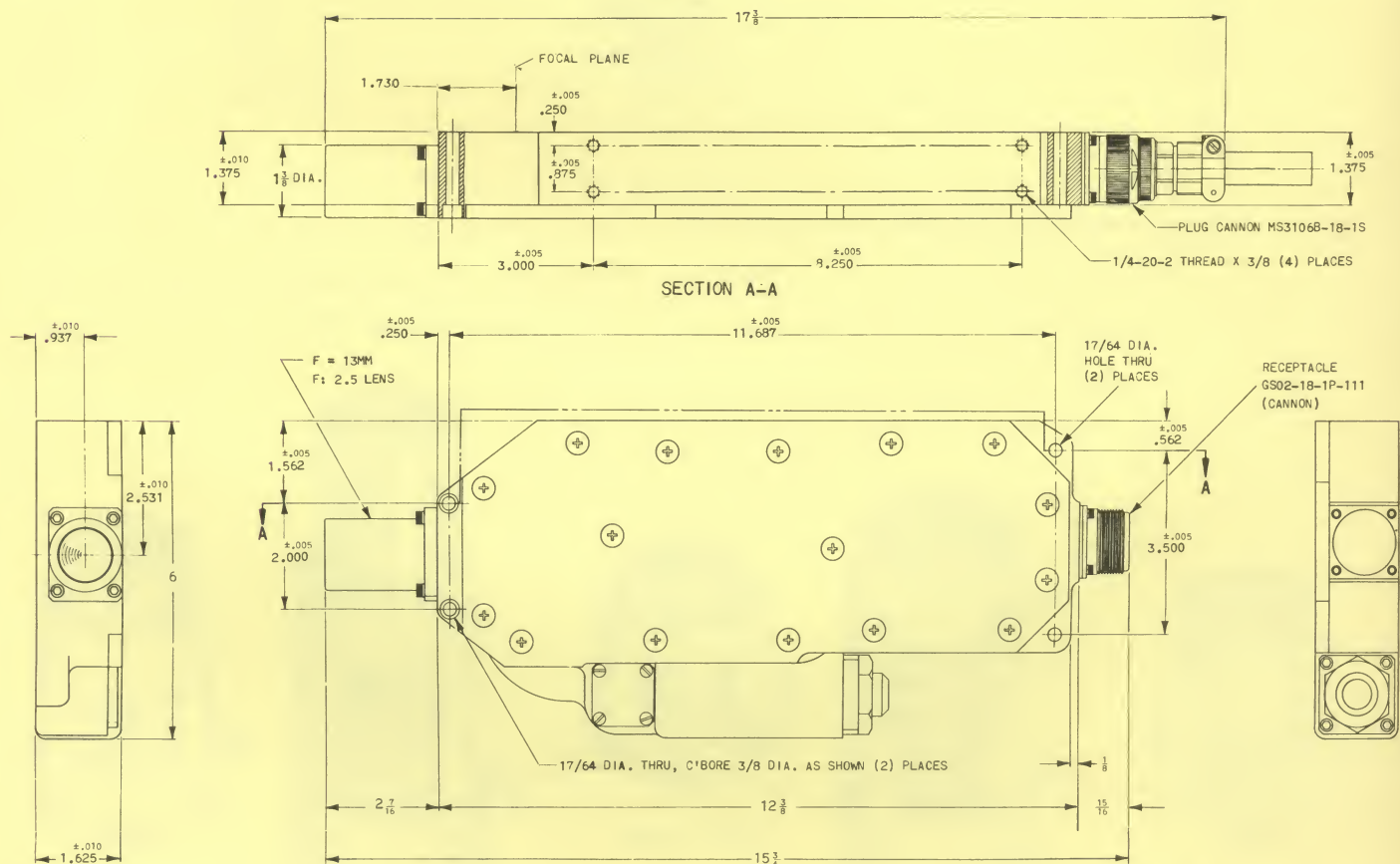
Lenses: see 16MM Lens Data Sheet.

With the camera running continuously and under stop and start conditions, centrifuge tests have been successfully conducted up to 100 "G's" and vibration tests at 20 "G's" from 1 to 2000 C.P.S.

A protective cassette is built into the camera to minimize damage to the exposed film when excessive shock or impact loads are encountered.

Water tight seals are provided to make submersion in water for several hours possible without damage to the film.

The drive motor is an integral part of the camera and the frame rate is a function of input voltage. Heaters are supplied for operation down to —65 degrees fahrenheit.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

16MM-1F CAMERA complete with two timing lights, heaters,
permanently mounted DC motor, f/2.5 13mm lens\$3,060.00

ACCESSORIES

10X boresight tool, right angle	140.00
Other lenses to customer specifications.	
100 frame per second gear box	450.00
Waterhouse lens stop	12.50

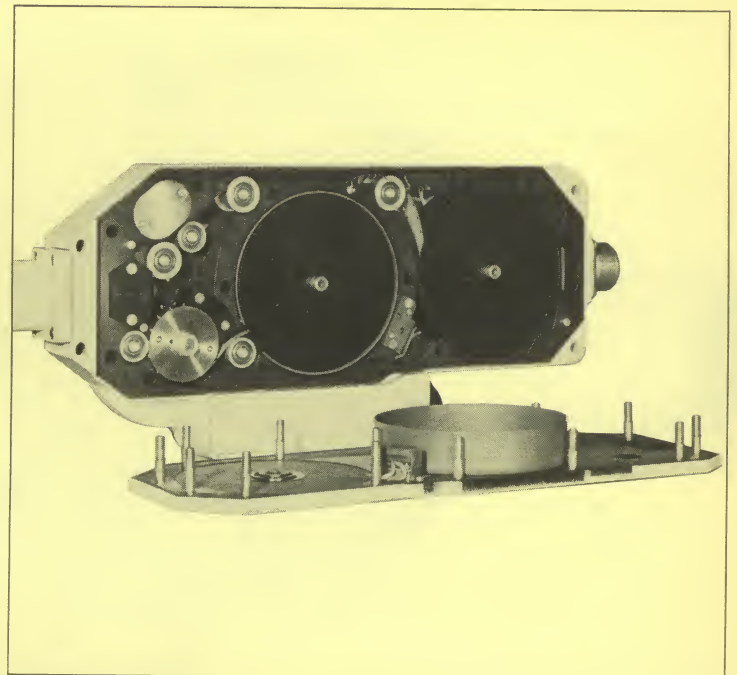


PHOTO-SONICS

16MM-1F



LENSES

16MM-1B and 16MM-1C

LENS	MOUNT	PRICE
3.7mm f/1.5 Navitar	Ruggedized fixed focus	\$640.00
5mm f/1.5 Navitar	Ruggedized fixed focus	450.00
5.3mm f/1.5 Raptar	Ruggedized fixed focus	198.00
8mm f/1.5 Navitar	Ruggedized fixed focus	450.00
13mm f/1.5 Navitar	Ruggedized focusing mount	247.00
13mm f/2.3 Raptar	Ruggedized focusing mount	249.00
17mm f/2.3 Raptar	Ruggedized focusing mount	227.00
25mm f/2 Navitar	Ruggedized focusing mount	225.00
25mm f/2.3 Raptar	Ruggedized focusing mount	227.00
35mm f/2 Navitar	Ruggedized focusing mount	265.00
50mm f/2.3 Raptar	Ruggedized focusing mount	249.00
50mm f/2 Navitar	Ruggedized focusing mount	245.00
75mm f/2.3 Raptar	Ruggedized focusing mount	290.00
76mm f/1.9 Navitar	Ruggedized focusing mount	285.00
4 inch f/2.5 Raptar	Ruggedized focusing mount	325.00
4 inch f/2.7 Navitar	Ruggedized focusing mount	315.00
6 inch f/3.8 Raptar	Ruggedized focusing mount	450.00
6 inch f/3.8 Navitar	Ruggedized focusing mount	380.00
250mm f/4 Nikkor	Flanged focusing mount	330.00
20-80mm f/1.8 Navitar zoom	Flanged focusing mount	445.00
20-80mm f/1.8 Navitar zoom	Flanged focusing mount (with reflex finder)	625.00

Lenses for the 16mm-1A and 16mm-1G cameras per customer specifications.

The Photo-Sonics 16mm-1F camera is equipped with a 13mm, f/2.5 lens without an iris; Waterhouse stops can be supplied.

Lenses other than those listed can be furnished. Please state your requirements.

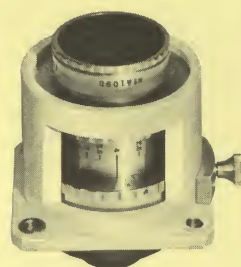
Prices (July 1, 1963) are net FOB Burbank, California, and subject to change without notice.



76mm, f/1.9 Navitar



4 inch, f/2.7 Navitar



25mm, f/2 Navitar



6 inch, f/3.8 Navitar



13mm, f/1.5 Navitar



35MM

35MM-2A

RECORDING CAMERA

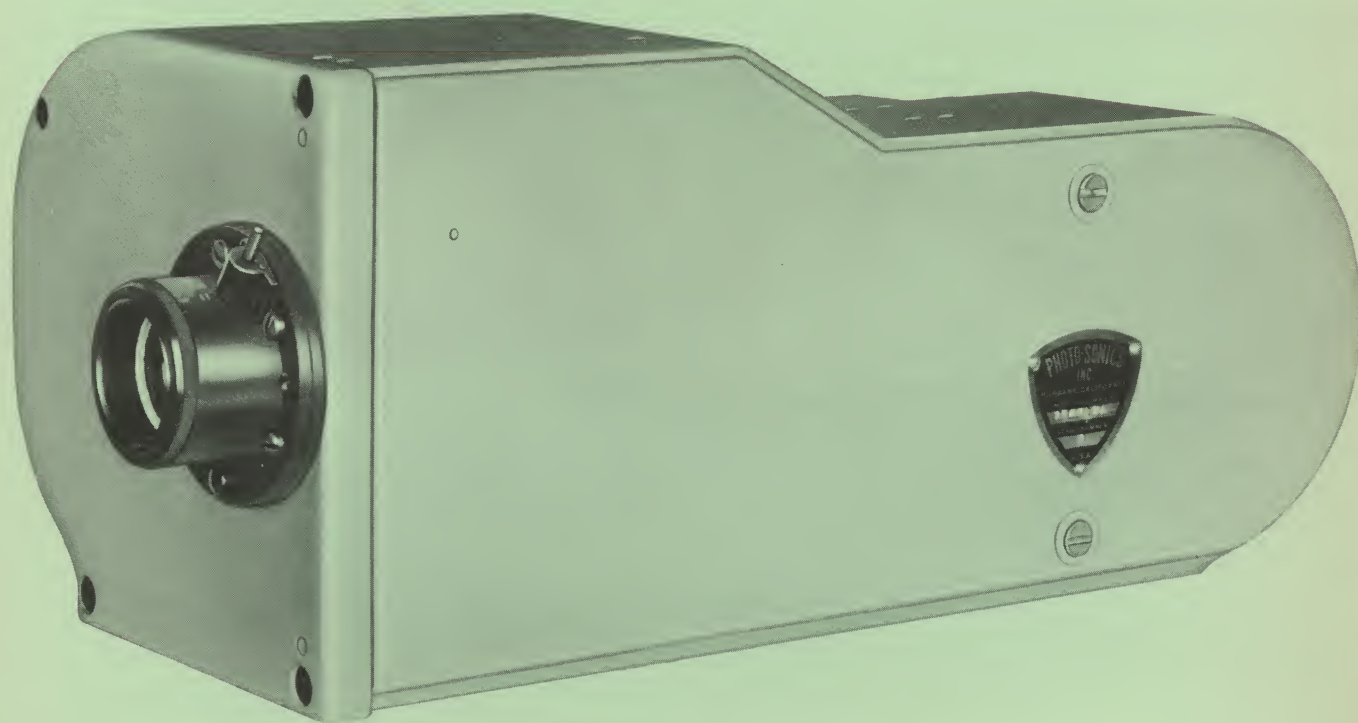


PHOTO-SONICS, INC.

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Victoria 9-6251

The Photo-Sonics 35mm-2A Recording Camera is designed to withstand high accelerations and vibrations. It incorporates extremely rugged construction into a minimum package. The film is transported by a high precision movement and is held stationary during the exposure by means of registration pins.

Frame rate: 200 frames per second.

Aperture size: .370 x .875 inches.

Film specification: ASA PH 22.36-1954.

Film capacity: 100 foot daylight spools.

Shutter: fixed opening rotary disk, 72° maximum.

Film transport: intermittent with register pins.

Motor: 24 to 28 volt DC.

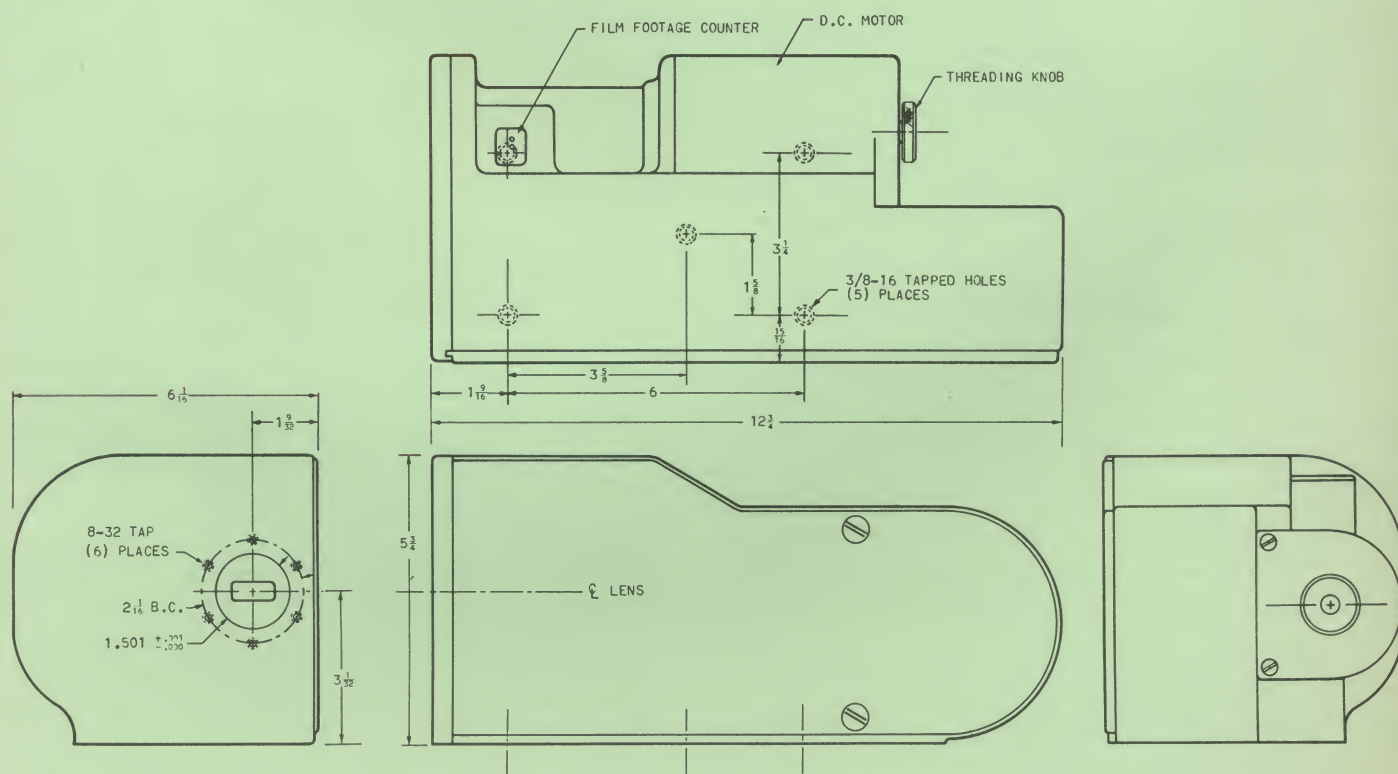
Weight: 25 pounds.

Mounting: base.

Standard equipment: buckle switch, runout switch, and footage counter.

Accessories: 2 light timer, boresight tool, carrying case, and spare shutter.

Lenses: see 35MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

35MM-2A CAMERA complete with standard equipment\$7,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

2 light timer	350.00
Boresight tool	250.00
Carrying case	45.00
Spare shutter	60.00

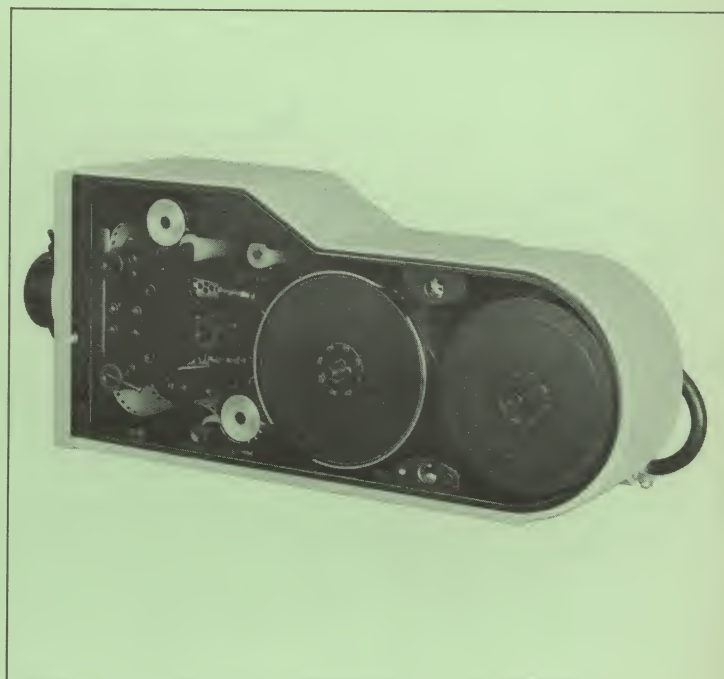
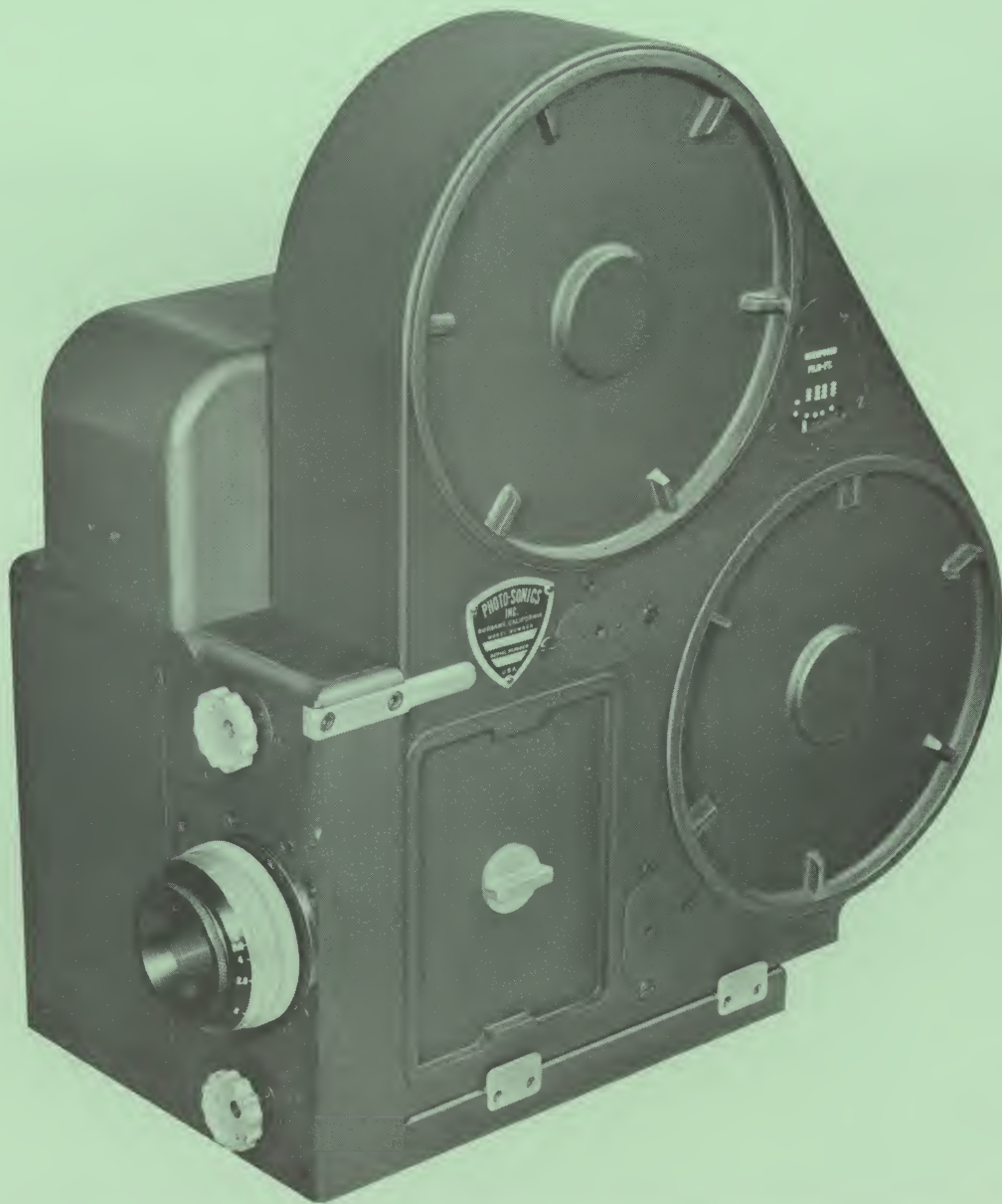


PHOTO-SONICS

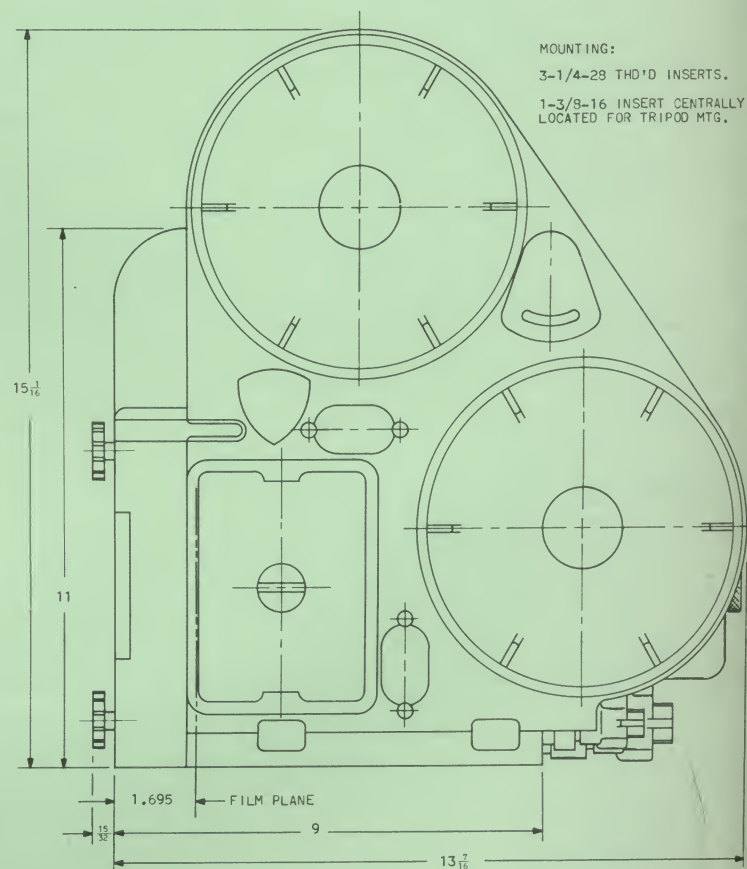
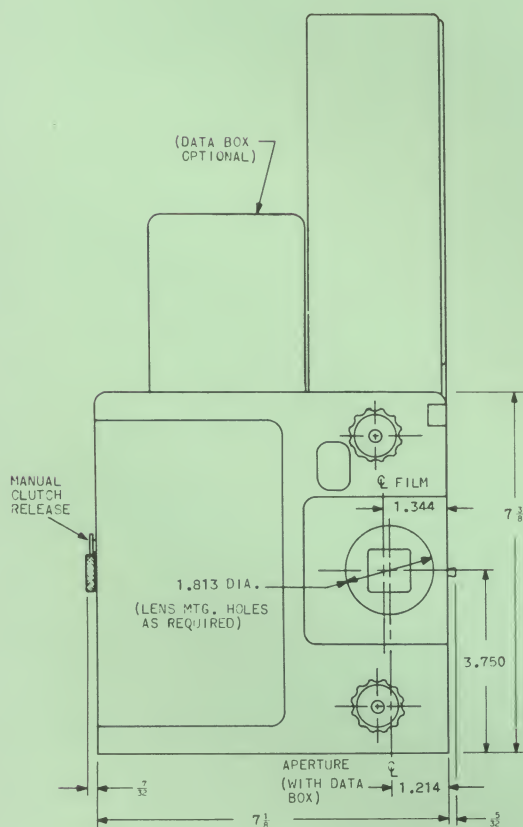
35MM-2A

35MM-4A

Pulse or Cine RECORDING CAMERA



When required the camera may be equipped with a data box for the purpose of recording frame numbers and other coded information. This data is printed on the film adjoining each frame. This reduces the actual frame to a size of .720 x .720 inches.

Lenses: see 35MM Lens Data Sheet.

Standard camera shown — dimensions subject to change without notice.

PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

35MM-4A CAMERA complete with standard equipment\$10,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Boresight tool	250.00
400 ft. magazine	2,200.00
Spare shutter	60.00
2 light timer	350.00
Aperture grid	60.00
Carrying case, camera	55.00
Carrying case	35.00

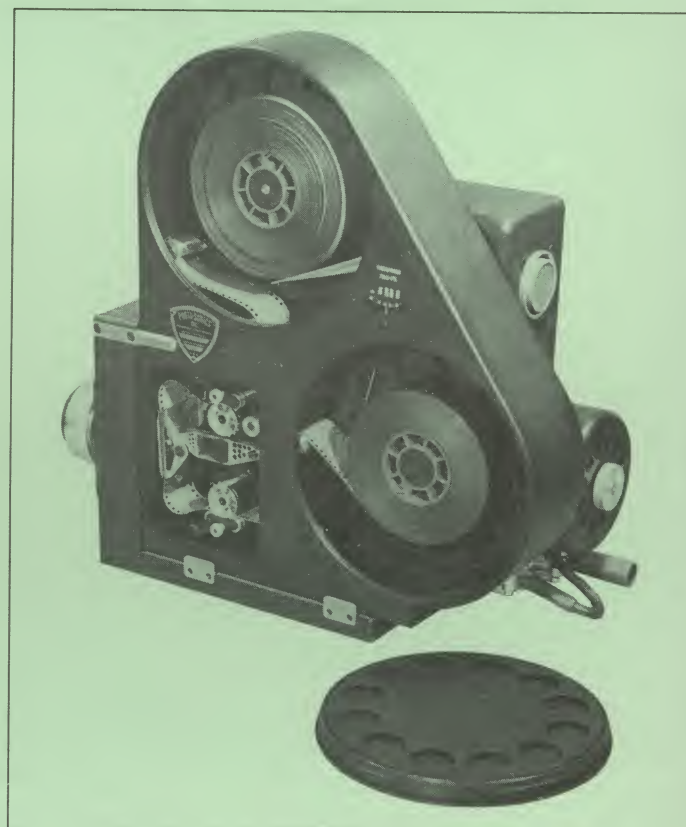


PHOTO-SONICS

35MM-4A

35MM-4B

Rotary Prism RECORDING CAMERA

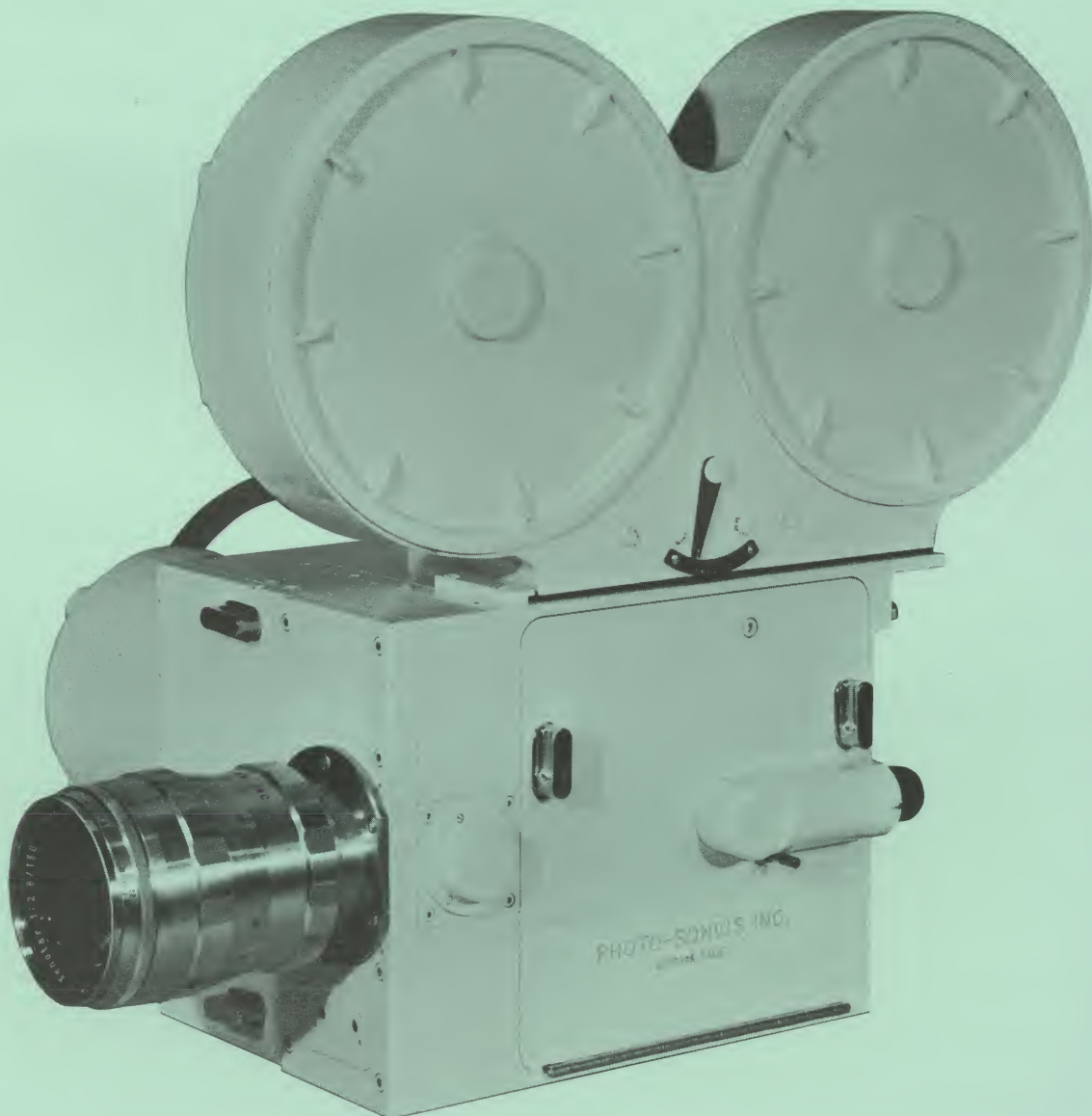


PHOTO-SONICS, INC.

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Victoria 9-6251

The Photo-Sonics 35mm-4B Rotary Prism Recording Camera is designed for high speed photography on a full 35mm format.

The 4B camera utilizes a rotary prism for image compensation on film continuously in motion.

In this camera the rotary prism operates in synchronism with a disk shutter positioned between the prism and the film. This prism/shutter combination results in an even exposure over the full 35mm format, high resolution, and greater shutter efficiency. The camera may be supplied in a left hand version when space requirements rule out the use of the standard model.

Frame rate: up to 3250 frames per second.

Aperture size: full frame 35mm.

Film specification: ASA PH 22.36-1954.

Film capacity: 500 and 1000 foot magazines.

Shutter: interchangeable rotary disk, 72 degrees maximum.

Film transport: continuous (rotary prism).

Motor: as required.

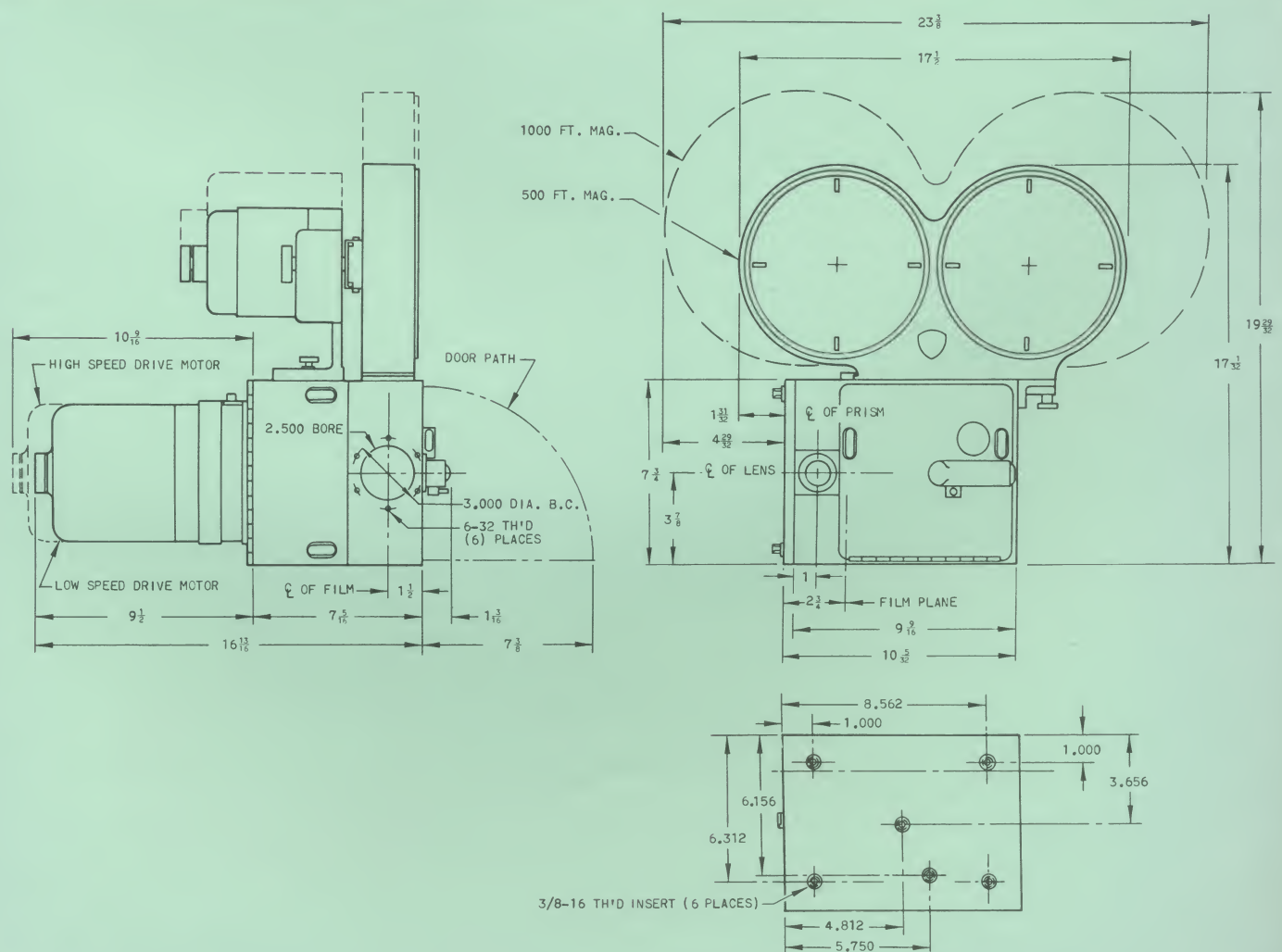
Weight: 96 pounds.

Mounting: base.

Standard equipment: 500 or 1000 foot brake and take-up, buckle and runout switches, 2 light timer, fiducial markers with intensity control, and 10X boresight tool.

Accessories: spare shutters, 500 or 1000 foot magazines, ballistic synchro kit, control box, drive motor with high and low speed transmissions, series drive motor, and series control box.

Lenses: see 35MM Lens Data Sheet.



PRICES (July 1, 1965) subject to change without notice—net FOB Burbank, Calif.

35MM-4B CAMERA complete with standard equipment.....	\$7,000.00
left hand model complete with standard equipment	8,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

500 foot magazine	295.00
500 foot magazine, left hand	339.00
1000 foot magazine	340.00
1000 foot magazine, left hand	391.00
Control box and cable	725.00
Sync. 208V, 3 ϕ drive motor (two-speed) with 250 to 2500 fps transmission	1525.00
Sync. 240V, 1 ϕ drive motor with 500 to 2500 fps transmission.....	1,175.00
Sync. 208V, 3 ϕ drive motor with 500 to 2500 fps transmission.....	1,175.00
Sync. 115V, 1 ϕ drive motor with 250 to 1250 fps transmission.....	1,025.00
Sync. 208V, 3 ϕ drive motor with 250 to 1250 fps transmission.....	1,025.00
Spare 500 foot brake and take-up	740.00
Spare 500 foot brake and take-up (left hand model)	850.00
Spare 1000 foot brake and take-up	765.00
Spare 1000 foot brake and take-up (left hand model)	880.00
Spare shutters, 9, 18, 36, and 72 degrees	55.00
Ballistic synchro kit, includes 1 slit aperture	230.00
Spare slit apertures	43.00
Tracking viewer	475.00
Camera carrying case	78.00
500 foot magazine carrying case	42.50
1000 foot magazine carrying case	54.00
Accessory carrying case	52.00
Series control box	450.00
Series drive motor, 100 to 240V, 1 ϕ —1000 to 3250 fps.....	400.00
1/2 frame conversion kit w/one shutter	1,600.00
1/4 frame conversion kit w/one shutter	3,100.00
Spare 1/2 frame shutter	85.00
Spare 1/4 frame shutter	110.00
Viewer- ballistic sync.	350.00
Reflex viewer	1,650.00
Take-up carrying case	45.00

*Drive motor — 208 volt, 3 phase, 400 cycles.

*Control box — 208 volt, 3 phase, 400 cycles.

*Take-up — 500 foot, 208 volt, 3 phase, 400 cycles.

*Take-up — 1000 foot, 208 volt, 3 phase, 400 cycles.

*Drive motor — 110 volt DC.

*Control box — 110 volt DC.

*Take-up — 500 foot, 110 volt DC.

*Take-up — 1000 foot, 110 volt DC.

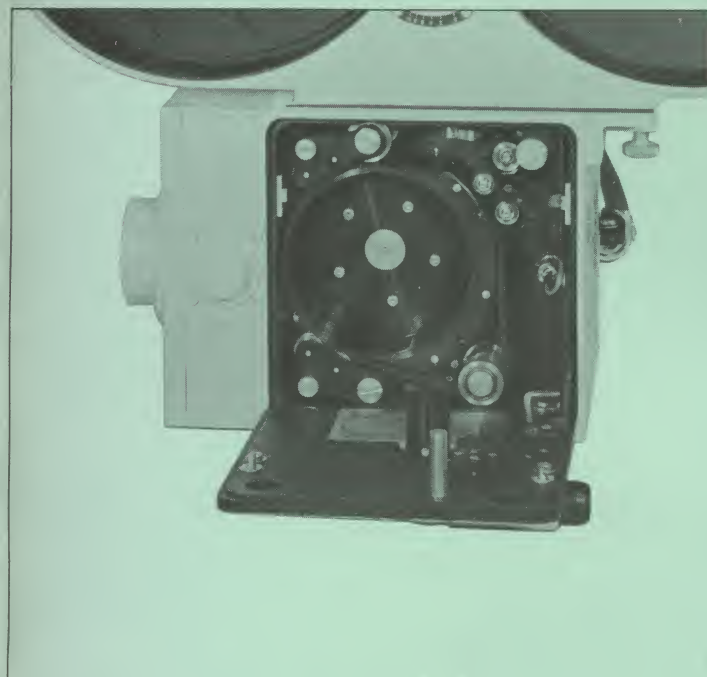


PHOTO-SONICS

35MM-4B

35MM-4C

Rotary Prism RECORDING CAMERA

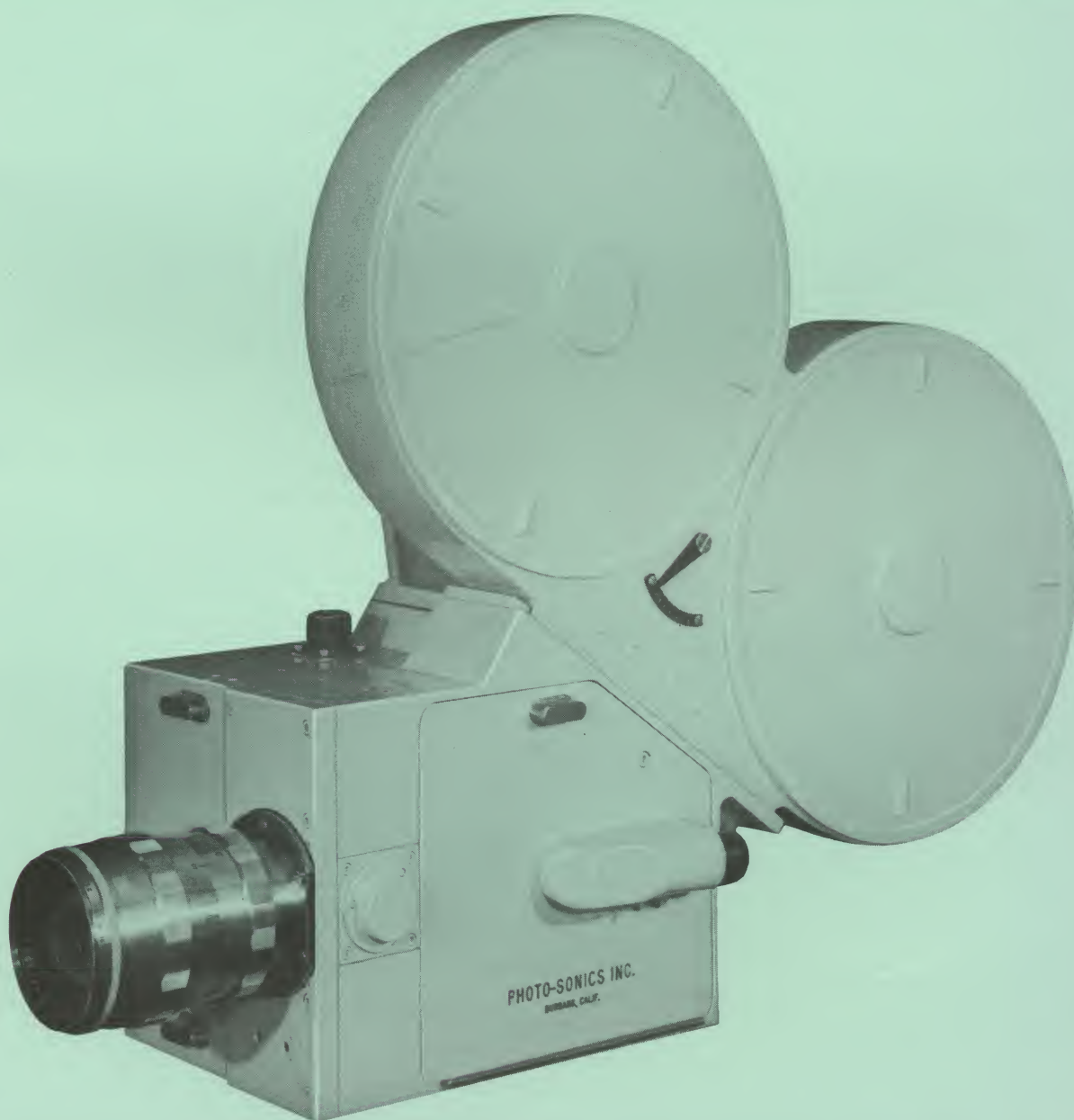
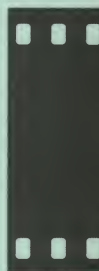


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 35mm-4C Rotary Prism Recording Camera is designed for high speed photography on a full 35mm format.

The 4C camera utilizes a rotary prism for image compensation on film continuously in motion. In this camera the rotary prism operates in synchronism with a disk shutter positioned between the prism and film. This prism/shutter combination results in an even exposure over the full 35mm format, high resolution, and greater shutter efficiency. The magazine is tilted back so that nothing protrudes beyond the front surface of the camera. This feature is very desirable when using the camera with large lenses or telescopes.

The camera may be supplied in a lefthand version when space requirements rule out the use of the standard model.

Aperture size: full frame 35mm.

Film specification: ASA PH 22.36-1954.

Film capacity: 500 and 1000 foot magazine.

Shutter: interchangeable rotary disk, 72 degrees maximum.

Film transport: continuous (rotary prism).

Motor: as required.

Weight: 94 pounds.

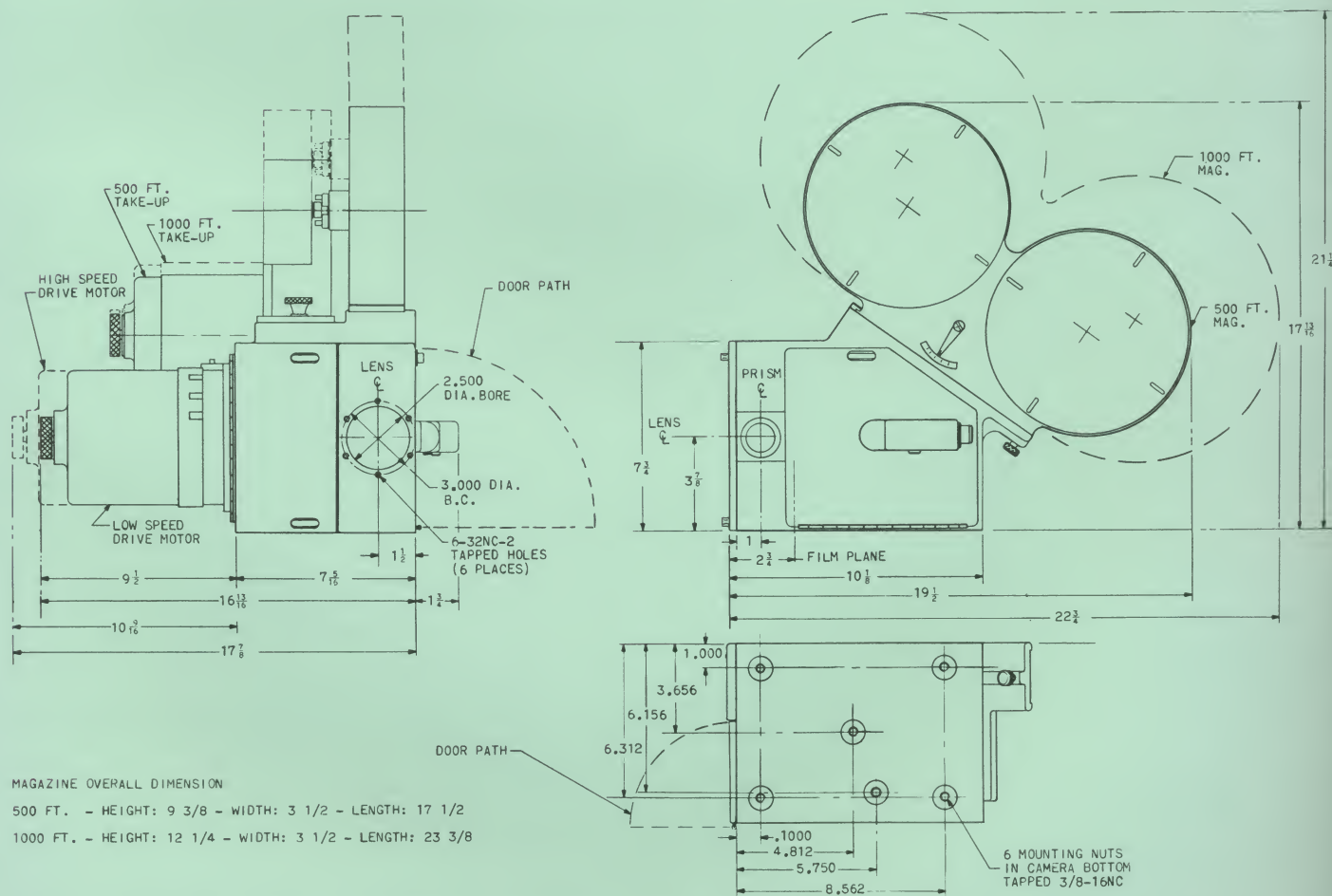
Mounting: base.

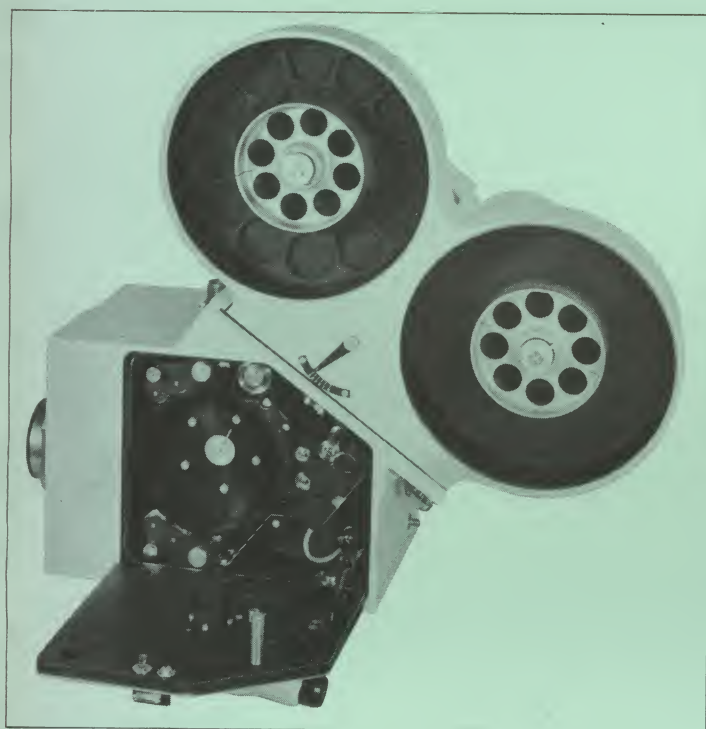
Standard equipment: 500 or 1000 foot brake and take-up, buckle and runout switches, 2 light timer, fiducial markers with intensity control, and 10X boresight tool.

Accessories: spare shutters, 500 or 1000 foot magazines, ballistic synchro kit, control box, drive motors with high and low speed transmissions, series drive motor, and series control box.

Frame rate: up to 3250 frames per second.

Lenses: see 35MM Lens Data Sheet.





PRICES (July 1, 1965) subject to change without notice—net FOB Burbank, Calif.

35MM-4C CAMERA complete with standard equipment	\$7,000.00
left hand model complete with standard equipment	8,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

500 foot magazine	295.00
500 foot magazine, left hand	339.00
1000 foot magazine	340.00
1000 foot magazine, left hand	391.00
Control box and cable	725.00
Series control box	450.00
Sync. 208V, 3 ϕ drive motor (two-speed) with 250 to 2500 fps transmission	1525.00
Sync. 240V, 1 ϕ drive motor with 500 to 2500 fps transmission	1,175.00
Sync. 208V, 3 ϕ drive motor with 500 to 2500 fps transmission	1,175.00
Sync. 115V, 1 ϕ drive motor with 250 to 1250 fps transmission	1,025.00
Sync. 208V, 3 ϕ drive motor with 250 to 1250 fps transmission	1,025.00
Series drive motor, 100 to 240V, 1 ϕ —1000 to 3250 fps	400.00
Spare 500 foot brake, and take-up	740.00
Spare 500 foot brake and take-up, left hand model	850.00
Spare 1000 foot brake and take-up	765.00
Spare 1000 foot brake and take-up, left hand model	880.00
Spare shutters, 9, 18, 36, and 72 degrees	55.00
Ballistic synchro conversion kit, includes 1 slit aperture	230.00
Spare slit apertures	43.00
Tracking viewer	475.00
Camera carrying case	78.00
500 foot magazine carrying case	42.50
1000 foot magazine carrying case	54.00
Accessory carrying case	52.00
1/2 frame conversion kit w/one shutter	1,600.00
1/4 frame conversion kit w/one shutter	3,100.00
Spare 1/2 frame shutter	85.00
Spare 1/4 frame shutter	110.00
Viewer- ballistic sync	350.00
Reflex viewer	1,650.00
Take-up carrying case	45.00

*Drive motors — 208 volt, 3 phase, 400 cycles.

*Control box — 208 volt, 3 phase, 400 cycles.

*Take-up — 500 foot, 208 volt, 3 phase, 400 cycles.

*Take-up — 1000 foot, 208 volt, 3 phase, 400 cycles.

*Drive motor — 110 volt DC.

*Control box — 110 volt DC.

*Take-up — 500 foot, 110 volt DC.

*Take-up — 1000 foot, 110 volt DC.

PHOTO-SONICS

35MM-4C

35MM-CFB

RECORDING CAMERA

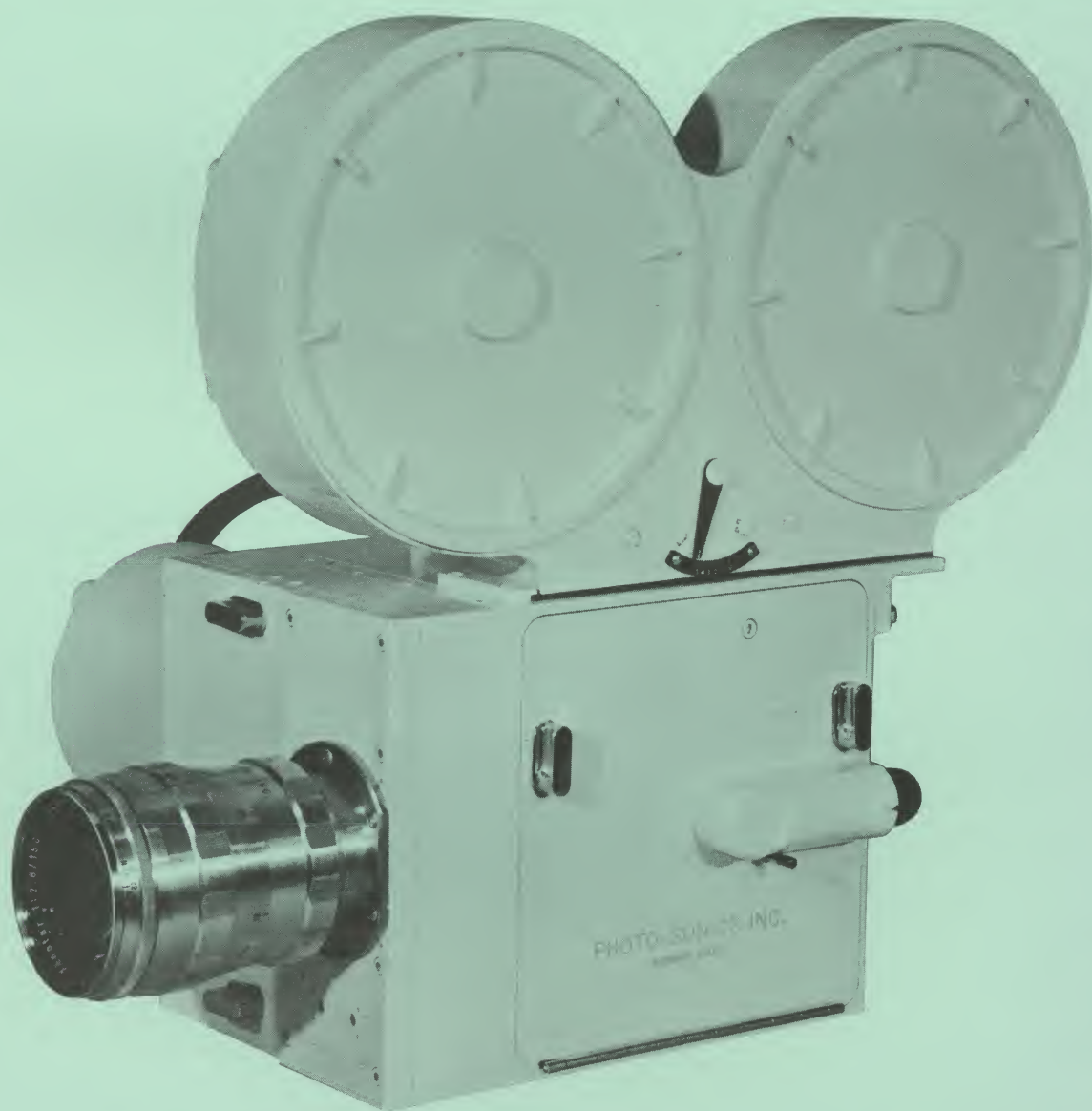


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 35mm-CFB Recording Camera is designed for Ballistic Synchro photography on a 35mm format.

The CFB is ideally suited for Oscilloscope recording and spectroscopic studies, providing a single unframed photograph. The Camera operates on the principle of film constantly in motion and moving in synchronism with the object being photographed. The Camera has a speed range of from 5 to 200 feet per second depending on the drive system selected.

Film speed: to 200 feet per second.

Aperture: .720 inches high.

Film specification: ASA PH 22.36-1954.

Film capacity: 500 or 1000 foot magazines.

Film transport: continuous.

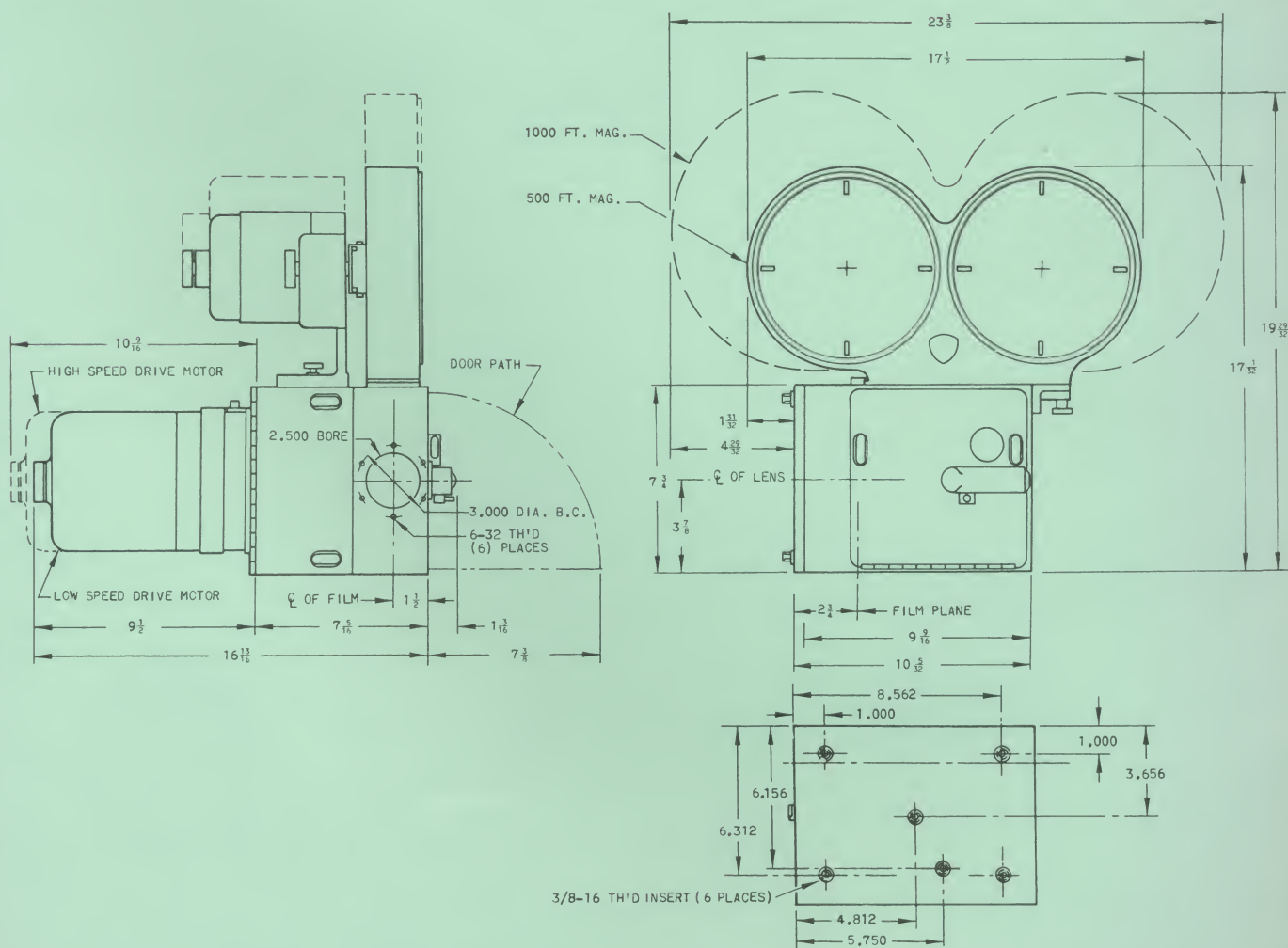
Motor: optional.

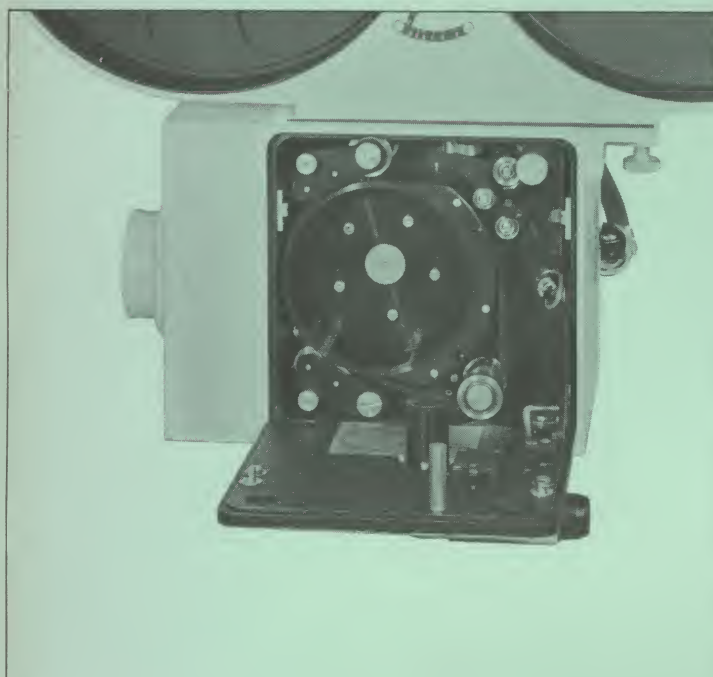
Weight: 90 pounds, approximately.

Standard equipment: 500 or 1000 foot brake and take-up, buckle and runout switches, two timing lights and boresight tool.

Accessories: 500 or 1000 foot magazines, sync. control box, 900, 1800 or 3600 rpm drive motor with five speed transmission, series drive motor, series control box and reflex viewer.

Lenses: see 35MM Lens Data Sheet.





PRICES (July 1, 1965) subject to change without notice—net FOB Burbank, Calif.

35mm-CFB CAMERA complete with standard equipment.....\$6,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

500 foot magazine.....	295.00
1000 foot magazine.....	340.00
Sync. control box.....	725.00
Sync. 208V, 3 ϕ , 1800 and 3600 rpm drive motor (two-speed) with 16 to 156 fps transmission	1525.00
Sync. 3600 rpm drive motor with 32 to 156 fps transmission.....	1,175.00
Sync. 1800 rpm drive motor with 16 to 79 fps transmission.....	1,025.00
Sync. 900 rpm drive motor with 8 to 40 fps transmission.....	1,025.00
Series variable speed control box.....	450.00
Series drive motor 63 to 200 fps.....	400.00
Spare 500 foot brake and take-up.....	740.00
Spare 1000 foot brake and take-up.....	765.00
Camera carrying case.....	78.00
500 foot magazine carrying case.....	42.50
1000 foot magazine carrying case.....	54.00
Accessory carrying case.....	52.00

*Drive motor — 208 volt, 3 phase, 400 cycles.

*Control box — 208 volt, 3 phase, 400 cycles.

*Take-up — 500 foot, 208 volt, 3 phase, 400 cycles.

*Take-up — 1000 foot, 208 volt, 3 phase, 400 cycles.

*Drive motor — 110 volt DC.

*Control box — 110 volt DC.

*Take-up — 500 foot, 110 volt DC.

*Take-up — 1000 foot, 110 volt DC.

PHOTO-SONICS

35MM-CFB



LENSES

35MM-4B and 35MM-4C

LENS			MOUNT	PRICE
28mm	f/3.5	Angenieux	Fixed focus, flange	\$240.00
40mm	f/2	T., T., & H.	Fixed focus, bayonet	425.00
40mm	f/2	T., T., & H.	Focusing mount, bayonet	600.00
50mm	f/3.5	Nikkor	Focusing mount, flange	500.00
58mm	f/2	Biotar	Focusing mount, flange	445.00
80mm	f/2.8	Xenotar	Focusing mount, bayonet	390.00
105mm	f/2.8	Xenotar	Fixed focus, bayonet	225.00
105mm	f/2.8	Xenotar	Focusing mount, bayonet	400.00
150mm	f/2.8	Xenotar	Fixed focus, bayonet	350.00
150mm	f/2.8	Xenotar	Focusing mount, bayonet	525.00
250mm	f/4	Nikkor	Focusing mount, bayonet	770.00
360mm	f/5.6	Tele-Xenar	Focusing mount, bayonet	395.00
500mm	f/5	Nikkor	Focusing mount, flange	*
1000mm	f/6.3	Nikkor	Non-focusing mount, flange	*

All lenses marked "Bayonet" will fit the Photo-Sonics "Interrupted Thread" type bayonet mount. Photo-Sonics cameras supplied with other types of mounts may be converted by simply installing lens mount #10-1229. Bayonet type lens mount p/n 10-1229, \$85.00.

500mm lens support plate, \$460.00.

1000mm, f/6.3, Nikkor — with lens support plate, focusing mount — price on request.

Lenses for the 35mm-2A and 35mm-4A cameras per customer specifications.

Lenses other than those listed can be furnished. Please state your requirements.

Prices (October 1, 1964) are net FOB Burbank, California, and subject to change without notice.

*Price and delivery on request.

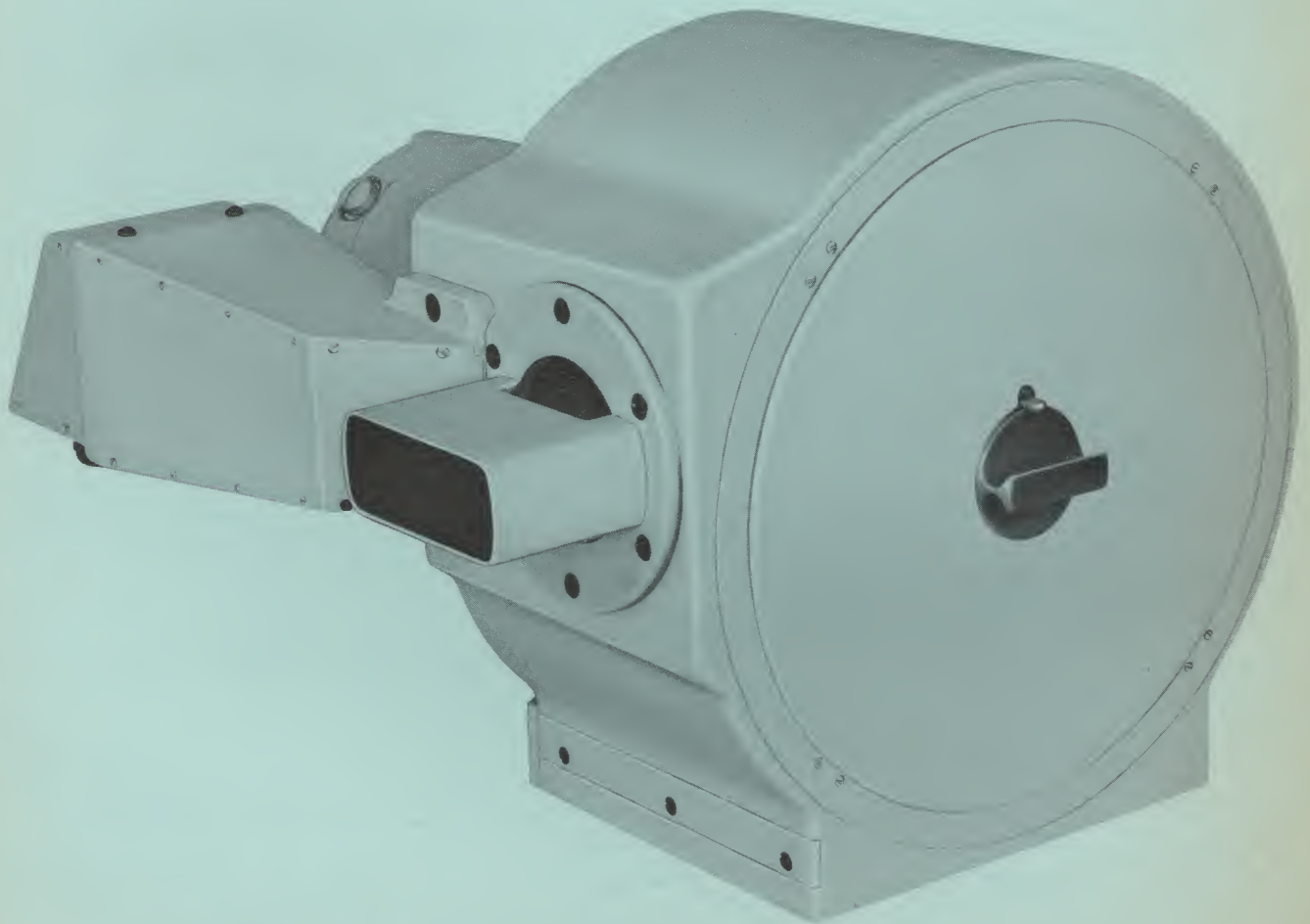




70MM

70MM-1A

RECORDING CAMERA



The Photo-Sonics 70mm-1A Recording Camera is designed for photographing objects travelling along a predetermined path at high speeds. The 1A camera will attain speeds of 400 frames per second. Through the use of a high precision intermittent film movement, the film is held stationary during the exposure. The camera is designed as a compact unit with the film spools and transport housed within the camera case.

Acceptance angles with a 50mm lens are approximately 58 degrees horizontally and 7 degrees vertically.

Frame rate: to 400 frames per second.

Aperture size: .218 x 2.25 inches.

Film specification: ASA PH 1.20-1956, type I perforation.

Film capacity: 80 feet.

Shutter: fixed opening, rotary drum, 60 degree maximum.

Motor: optional series 24V DC or 110V AC.

Film transport: intermittent.

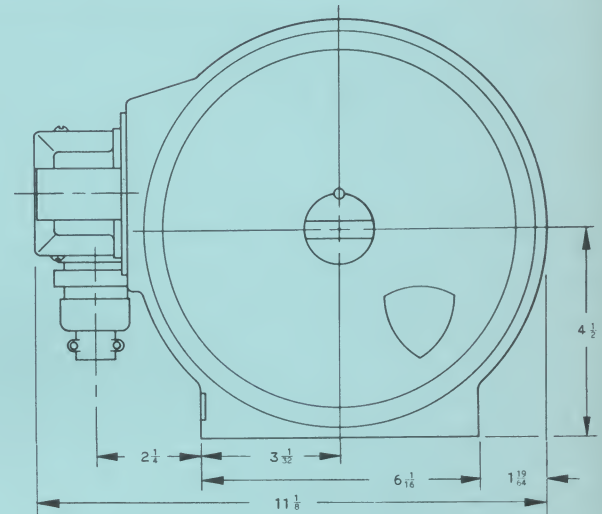
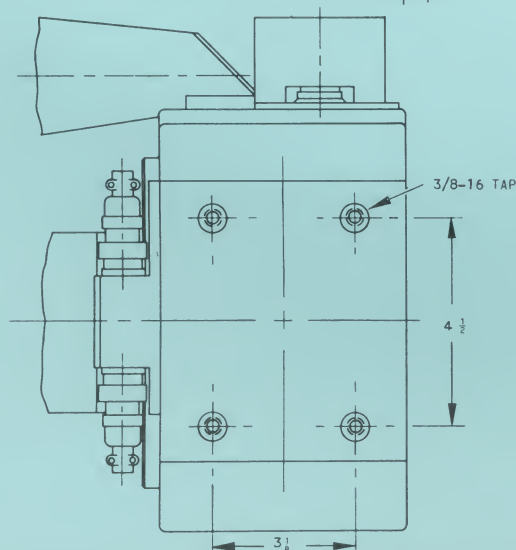
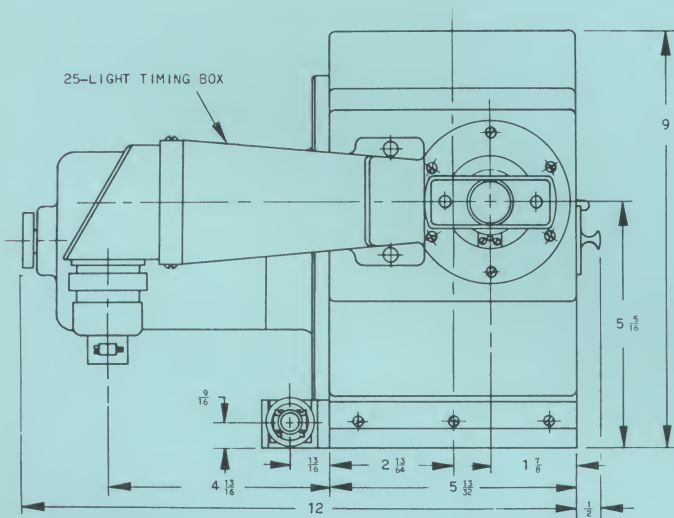
Weight: 30 pounds.

Mounting: base.

Standard equipment: drive motor and shutter.

Accessories: boresight tool, 2 light timer, aperture grid, and spare shutter.

Lenses: see 70MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-1A CAMERA complete with standard equipment\$6,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Spare motor, series, 24 V DC, or 110 V AC	260.00
Aperture grid	60.00
2 light timer	200.00
Boresight tool	250.00
Spare shutter	75.00

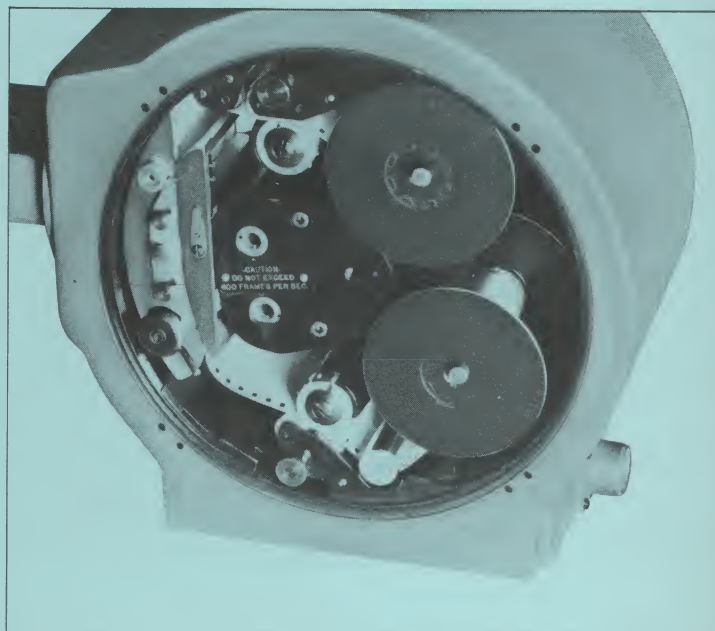


PHOTO-SONICS

70MM-1A

70MM-1B

RECORDING CAMERA

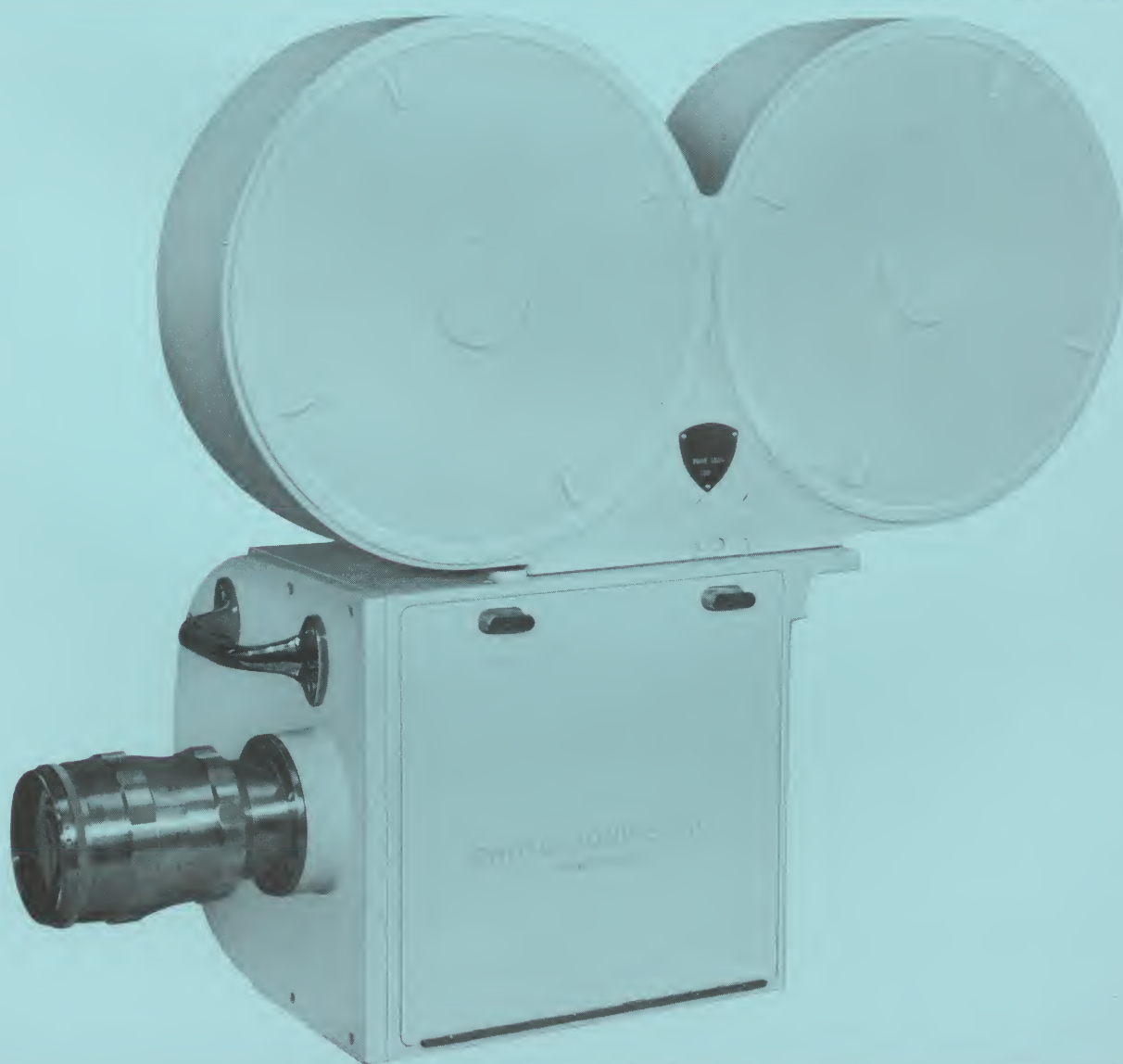


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 70mm-1B Recording Camera is designed to photograph objects travelling in a predetermined path at high speeds.

The film is transported by a high precision intermittent film movement that holds the film stationary during the exposure by means of accurately aligned registration pins. The camera will attain speeds up to 400 frames per second and has an exposure variation from 1/2400 to 1/72000 second through the use of interchangeable fixed opening rotary disk shutters.

Acceptance angles with a 50mm lens are approximately 58 degrees horizontally and 7 degrees vertically.

Frame rate: to 400 frames per second.

Aperture size: .218 x 2.218 inches.

Film specification: ASA PH 1.20-1956, type I perforation.

Film capacity: 400 or 1000 foot magazine.

Shutter: fixed opening rotary disk, 60° maximum.

Film transport: intermittent with register pins.

Motor: optional 115V series or 208V, 3 phase.

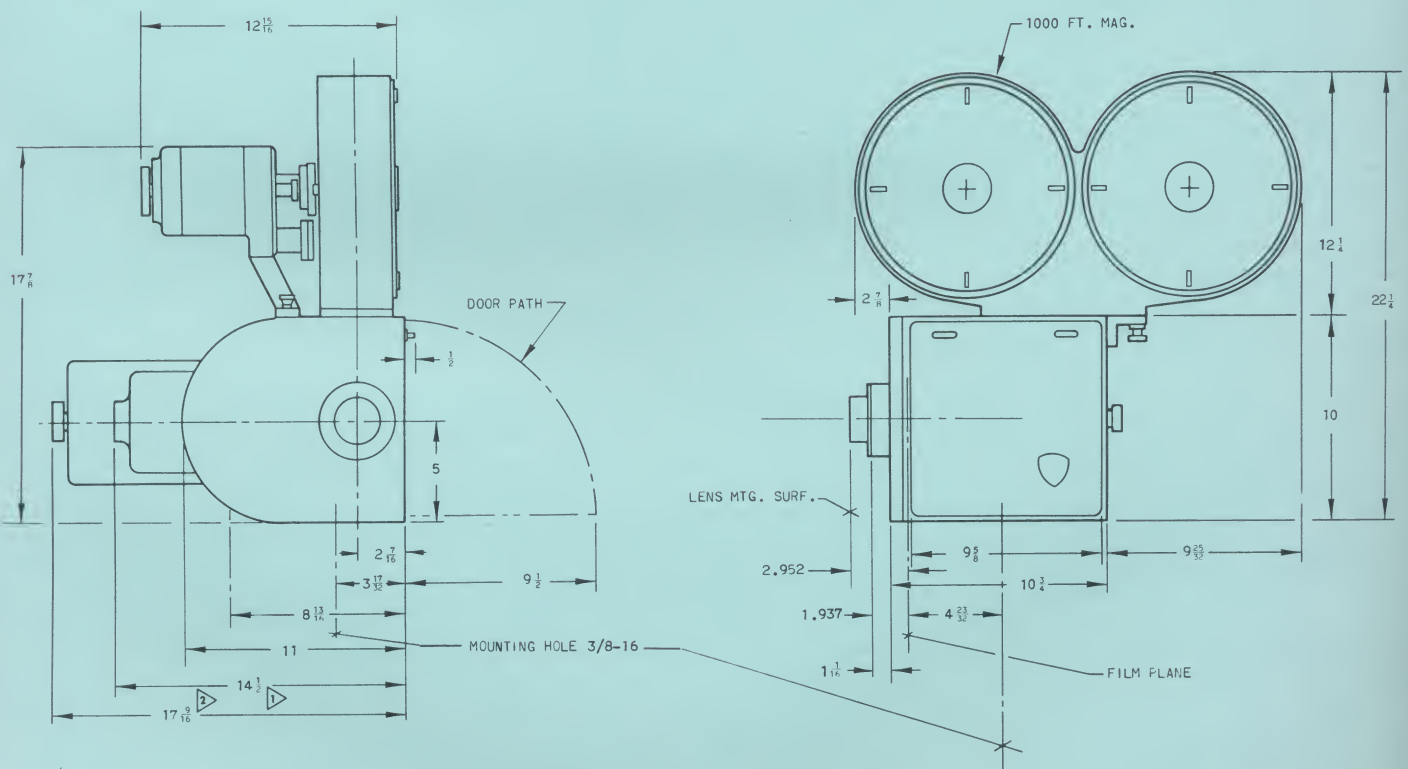
Weight: 85 pounds.

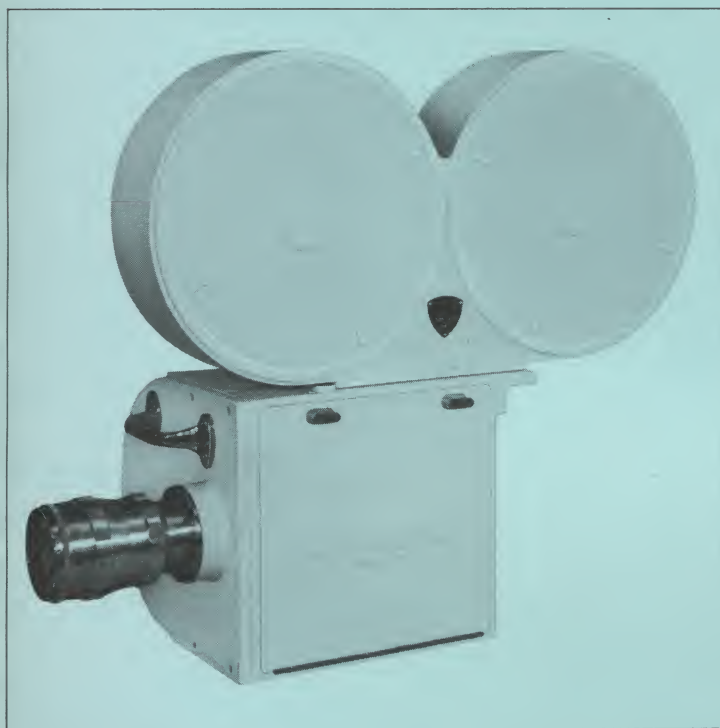
Mounting: base.

Standard equipment: drive motor, automatic take-up, buckle switch, runout switch, and resettable footage counter.

Accessories: aperture grid, 2 light timer, spare shutters, boresight tool, control box 400 and 1000 ft. magazines, and carrying cases.

Lenses: see 70MM Lens Data Sheet.





PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-1B CAMERA complete with standard equipment\$8,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Aperture grid	60.00
2 light timer	200.00
Spare shutter	75.00
Boresight tool	250.00
400 foot magazine	350.00
1000 foot magazine	400.00
Carrying case, camera	95.00
Carrying case, accessory	77.50
Carrying case, 400 ft. magazine	59.00
Carrying case, 1000 ft. magazine	70.00
Series drive motor.....	400.00
Series control box.....	450.00
Sync. 240 V, single phase drive motor with 100 to 400 fps trans.....	1,175.00
Sync. 208 V, 3 phase drive motor with 100 to 400 fps trans.....	1,175.00
Sync. 115 V single phase drive motor with 50 to 250 fps trans.....	1,025.00
Sync. 208 V, 3 phase drive motor with 50 to 250 fps trans.....	1,025.00
Control box and cable.....	725.00

*208 volt, 3 phase, 400 cycle drive motor.

*208 volt, 3 phase, 400 cycle control box.

*110 volt DC drive motor.

*110 volt DC control box.

PHOTO-SONICS

70MM-1B

70MM-1C

(MP) RECORDING CAMERA

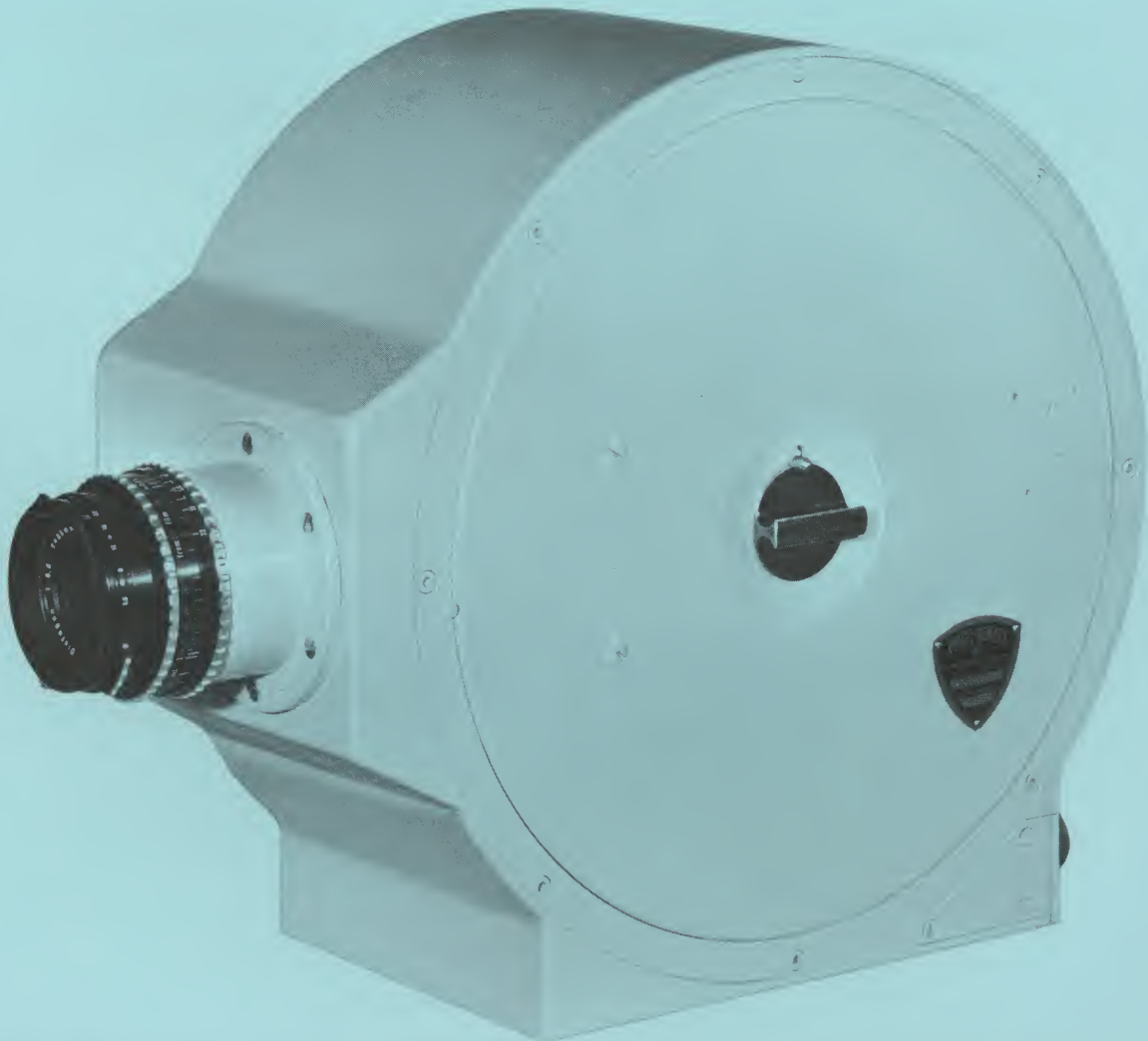


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820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 70mm-1C(MP) Recording Camera is designed for photographing objects traveling along a predetermined path at high speeds. The 1C, through the use of a 208 volt, 3 phase, 60 cycle synchronous motor, and 4 speed gearbox, will attain speeds of 100, 200, 300, and 400 frames per second.

The film is transported by a high precision film movement and is held stationary during the exposure by means of accurately aligned registration pins.

The camera is designed as a compact unit with the film transport and film spools housed within the camera case.

Acceptance angles with a 50mm lens are approximately 58 degrees horizontally and 7 degrees vertically.

Frame rate: to 400 frames per second.

Aperture size: .185 x 2.25 inches.

Film specification: ASA PH 1.20-1956, type II perforations.

Film capacity: 200 foot daylight load.

Film transport: intermittent with register pins.

Shutter: rotary drum with 36° maximum opening.

Motor: 208 volt, 3 phase, 60 cycle with 4 speed transmission.

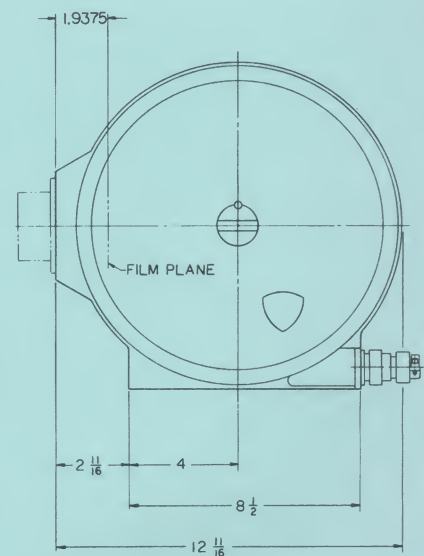
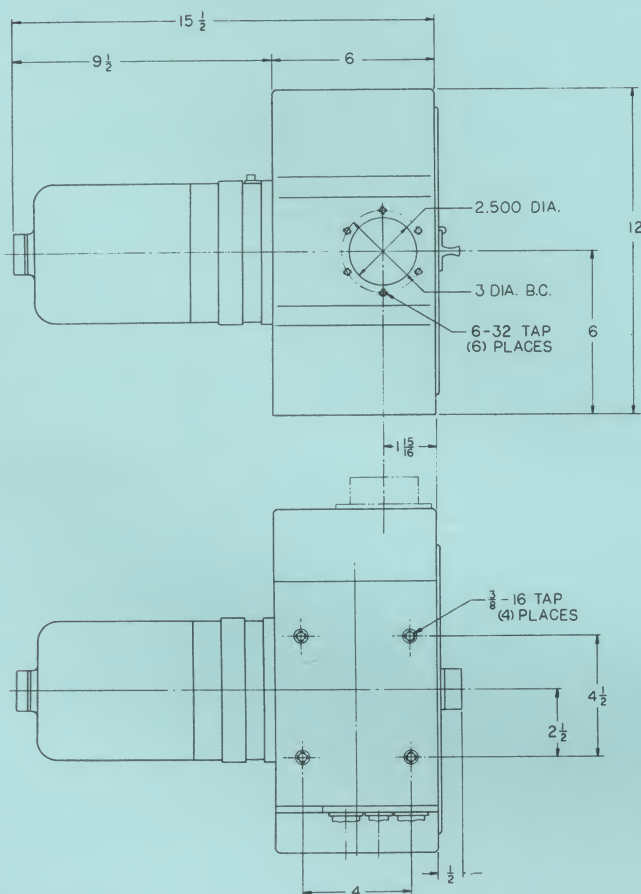
Weight: 60 pounds.

Mounting: base.

Standard equipment: 208, 3 phase, synchronous motor with 4 speed gearbox, buckle switch and runout switch.

Accessories: heaters, carrying case, spare shutter, 2 light timer, 28V DC motor, 110V AC motor, spare film spools, and boresight tool.

Lenses: see 70MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-1C (MP) CAMERA complete with standard equipment. \$8,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Heaters, thermostatically controlled	300.00
Camera carrying case	55.00
Spare shutter	450.00
2 light timer	350.00
208V, 3 phase, 60 cycle synchronous motor with 4 speed gearbox. .	1,250.00
Single speed 28 volt DC drive motor.	850.00
110 volt AC drive motor, (240 fps maximum)	850.00
Spare film spools	28.00
Boresight tool	250.00

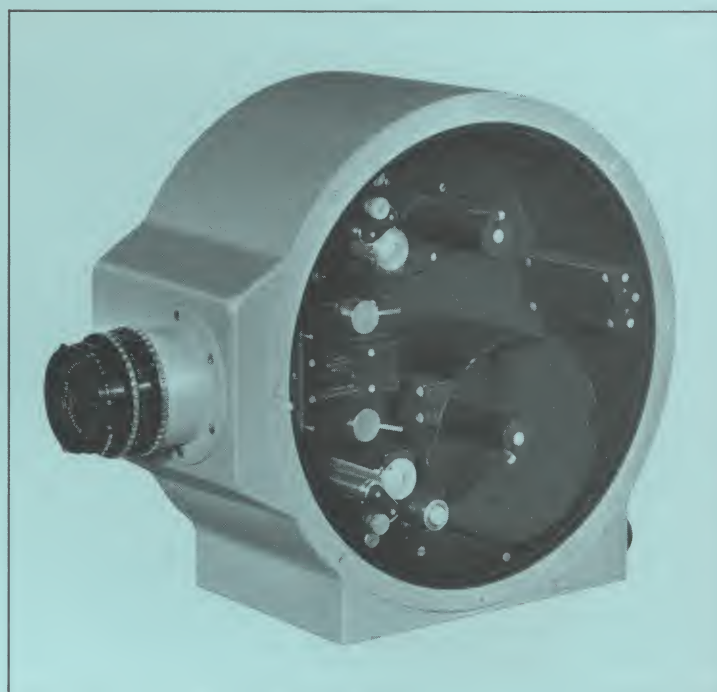
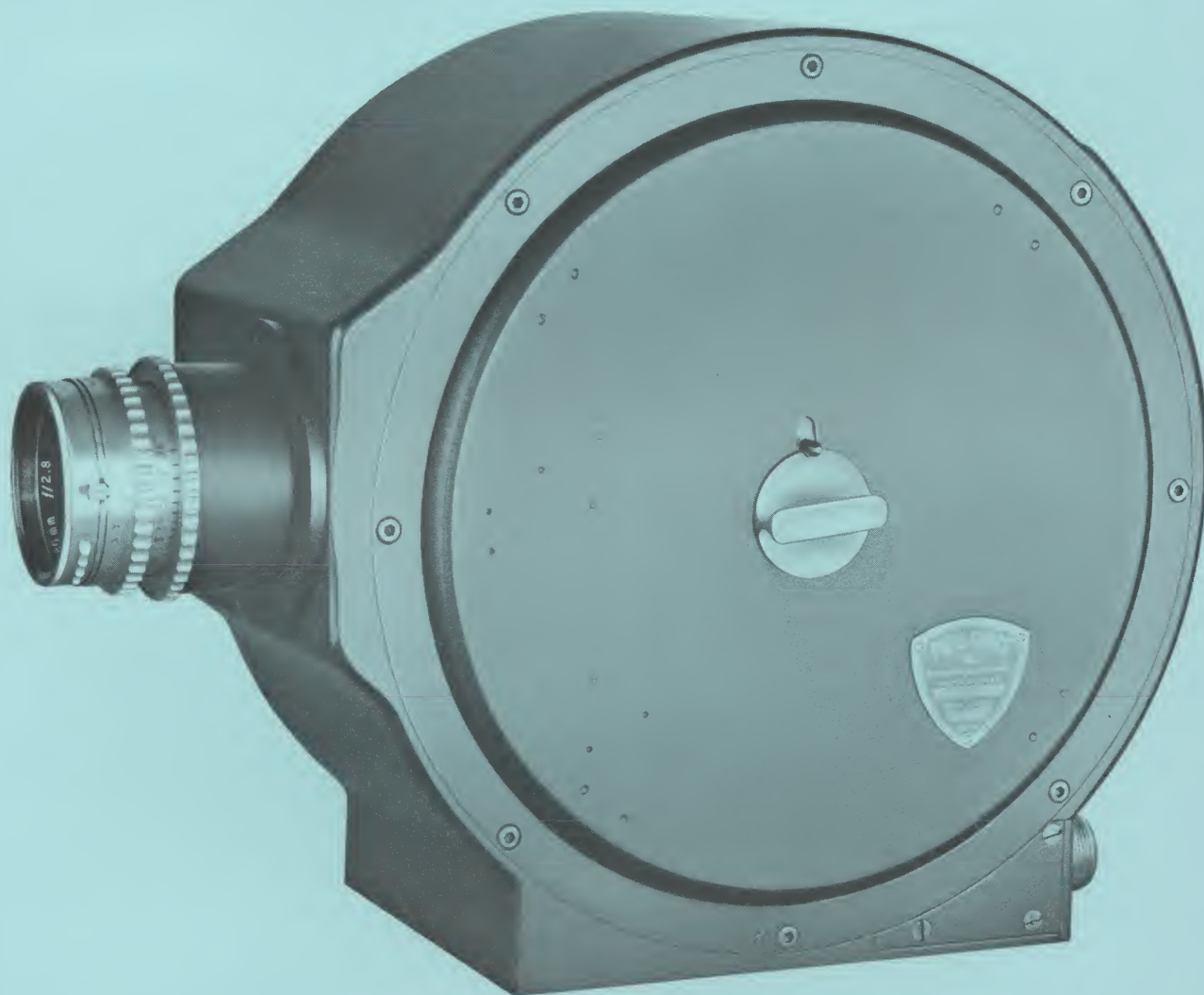


PHOTO-SONICS

70MM-1C

70MM-4A

(MP) RECORDING CAMERA



The Photo-Sonics 70mm-4A(MP) Recording Camera is designed to take high resolution, high quality motion pictures on a .740 x 2.25 inch format. The film transport mechanism and the film take-up and supply are housed in one compact unit. The drive motor and transmission are mounted on the side of the camera. The film is transported by a high precision, intermittent film movement, which holds the film stationary during the exposure by means of accurately aligned registration pins.

The camera may be equipped with a thermostatically controlled heater for low temperature operation. In actual tests this camera has operated properly after being exposed to -65° fahrenheit for a period of three hours.

Frame rate: to 100 frames per second.

Aperture size: .740 x 2.25 inches.

Film specification: ASA PH 1.20-1956, type II perforation.

Film capacity: 100 foot daylight load.

Film transport: intermittent with register pins.

Shutter: rotary drum with inserts, 36° maximum.

Motor: as required.

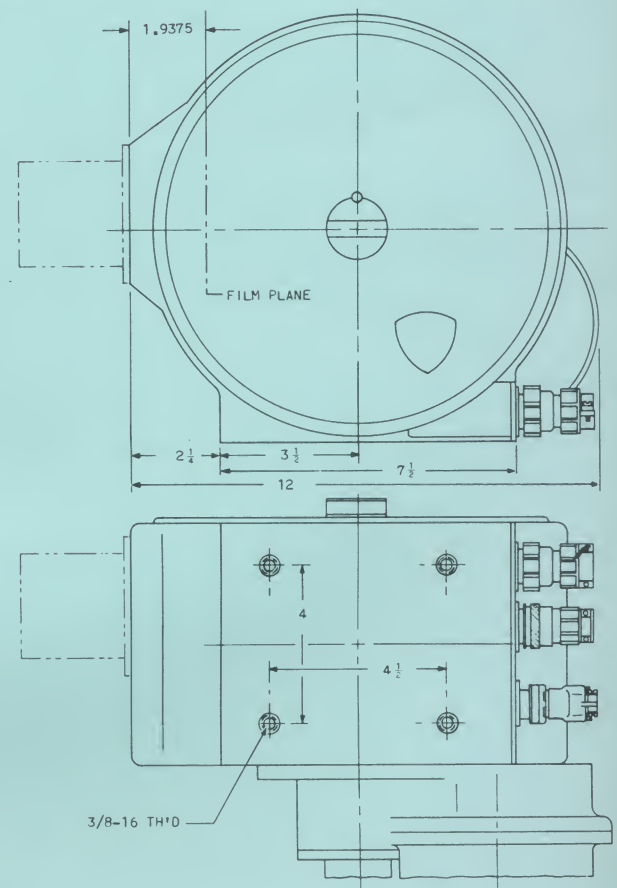
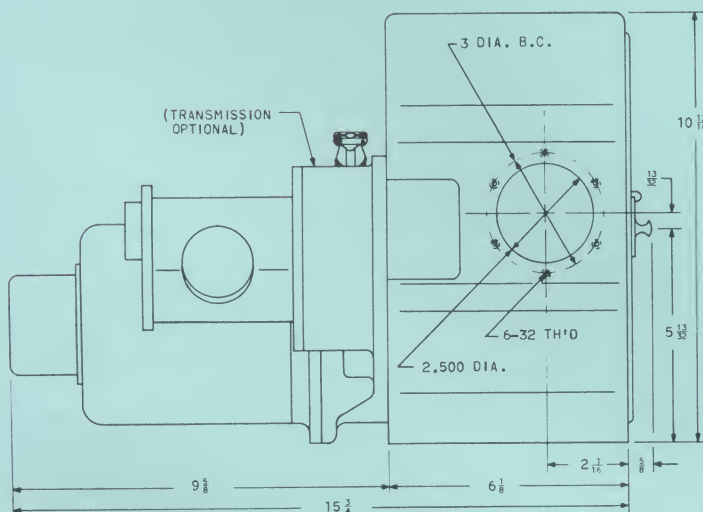
Weight: 51 pounds.

Mounting: base.

Standard equipment: motor, gear box, buckle and runout switches.

Accessories: 2 light timer, right angle motor mount, shutter inserts, heaters, carrying cases, spare film spools, and boresight tool.

Lenses: see 70MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-4A(MP) CAMERA complete with standard equipment\$8,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

2 light timer	350.00
Right angle motor mount	650.00
Shutter insert sets, to 30 degrees per set	45.00
Carrying case	55.00
Heaters, thermostatically controlled	300.00
Synchronous interlock motor, 110 volt, 400 cycle	900.00

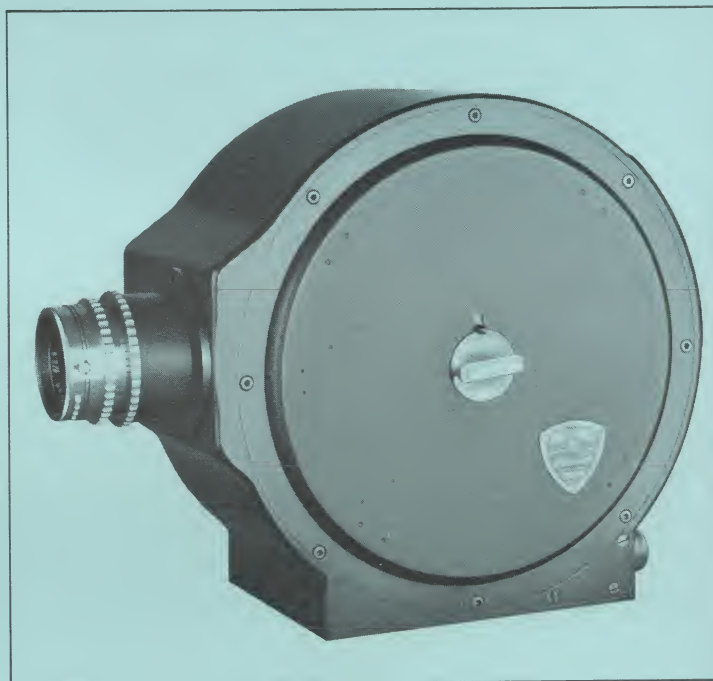


PHOTO-SONICS

70MM-4A

70MM-5A

RECORDING CAMERA

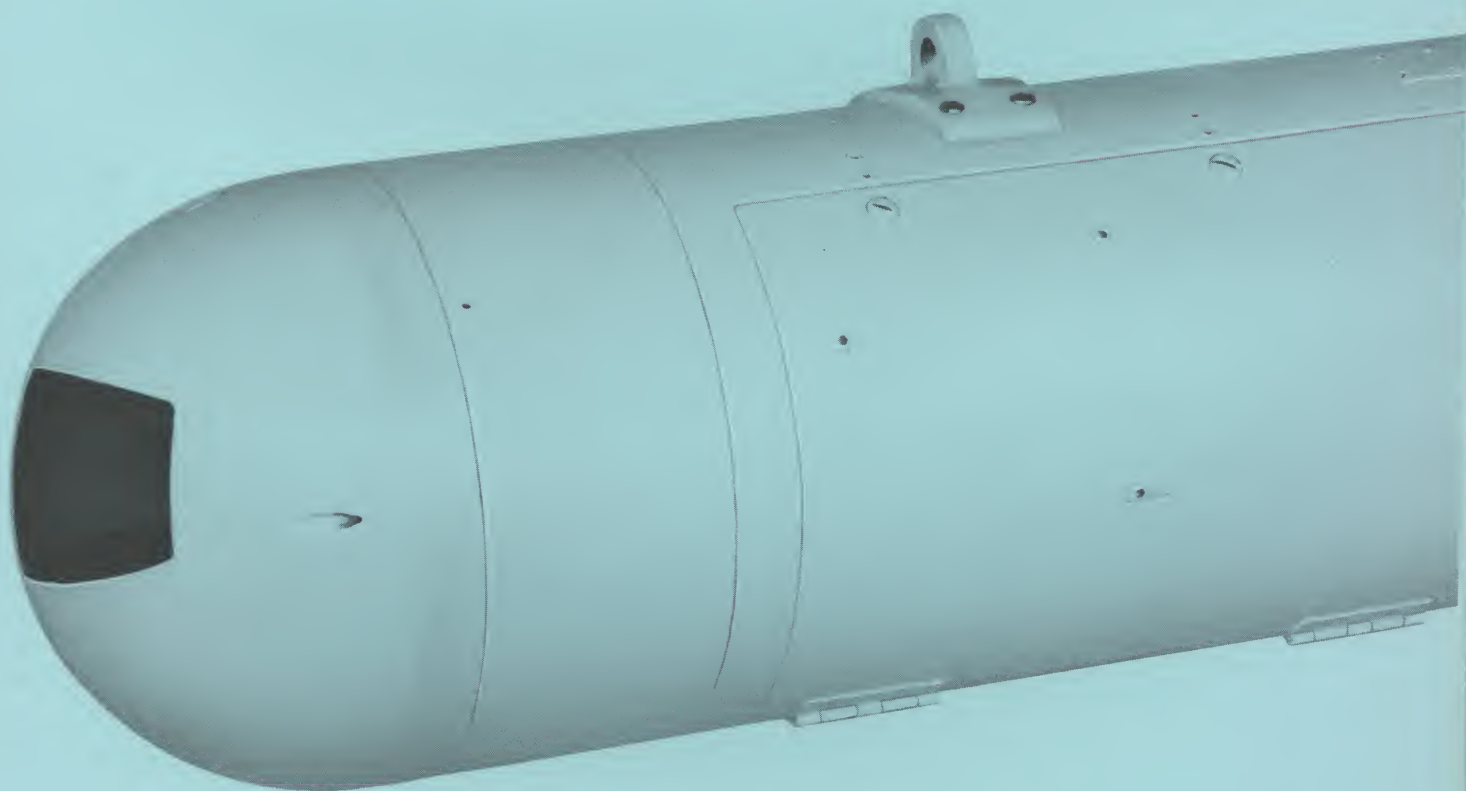
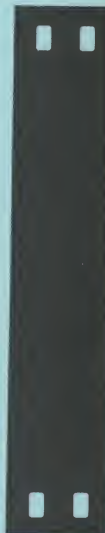


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 70mm-5A Recording Camera is designed primarily for aircraft use where a large accurately registered picture is required. The film is transported by a high precision film movement, and is held stationary during the exposure by registration pins.

With a 50mm lens the approximate field of view is 60 degrees horizontally and 30 degrees vertically. The front of the pod may be extended when long focal length lenses are used. An adaptor is also available for right angle photography.

Frame rate: to 60 frames per second.

Aperture size: 1.156 x 2.25 inches.

Film specification: ASA PH 1.20-1956, type I perforation.

Film capacity: 400 foot daylight spool.

Film transport: intermittent with register pins.

Shutter: fixed opening rotary disk, 120 degrees maximum.

Motor: 24 volt DC.

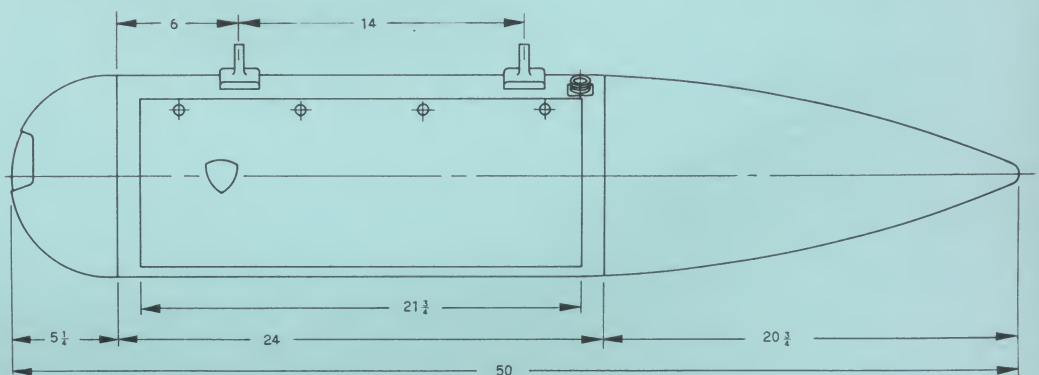
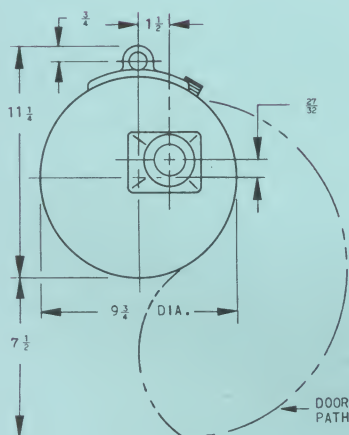
Weight: 80 pounds.

Mounting: aircraft wing mounting.

Standard equipment: two speed 24V DC motor, two 400 ft. film spools, and 150 watt heaters.

Accessories: 2 light timer, boresight tool, spare shutters, aperture grid, and spare film spools.

Lenses: see 70MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice — net FOB Burbank, Calif.

70MM-5A CAMERA complete with standard equipment\$6,500.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Aperture grid	75.00
2 light timer	200.00
Boresight tool	300.00
Spare shutter	60.00
Spare film spool	20.00
Right angle adapter on request.	

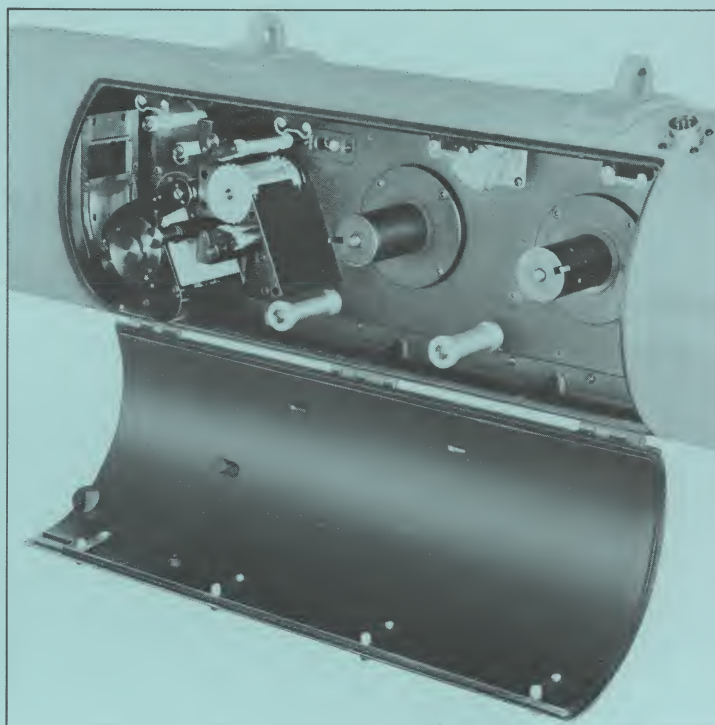


PHOTO-SONICS

70MM-5A

70MM-5B

RECORDING CAMERA

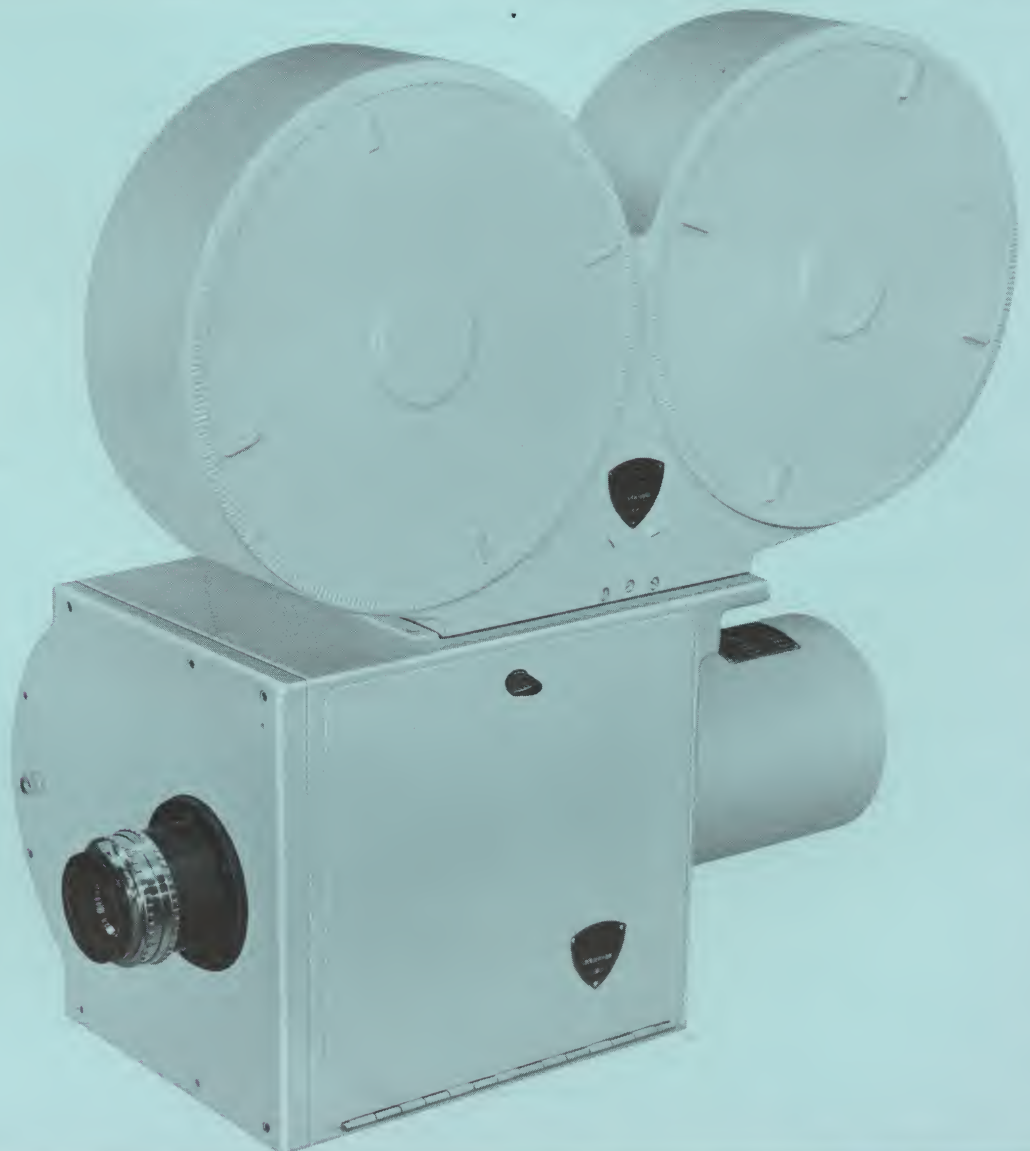


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The synchronous motor with its integral transmission provides speeds of 20, 40, and 80 frames per second.

Frame rate: to 80 frames per second.

Aperture size: 1.156 x 2.25 inches.

Film specification: ASA PH 1.20-1956,
type I perforation.

Film capacity: 400 or 1000 foot.

Film transport: intermittent with register pins.

Shutter: fixed opening rotary disk, 135 degree maximum.

Motor: sync. 110 volt AC.

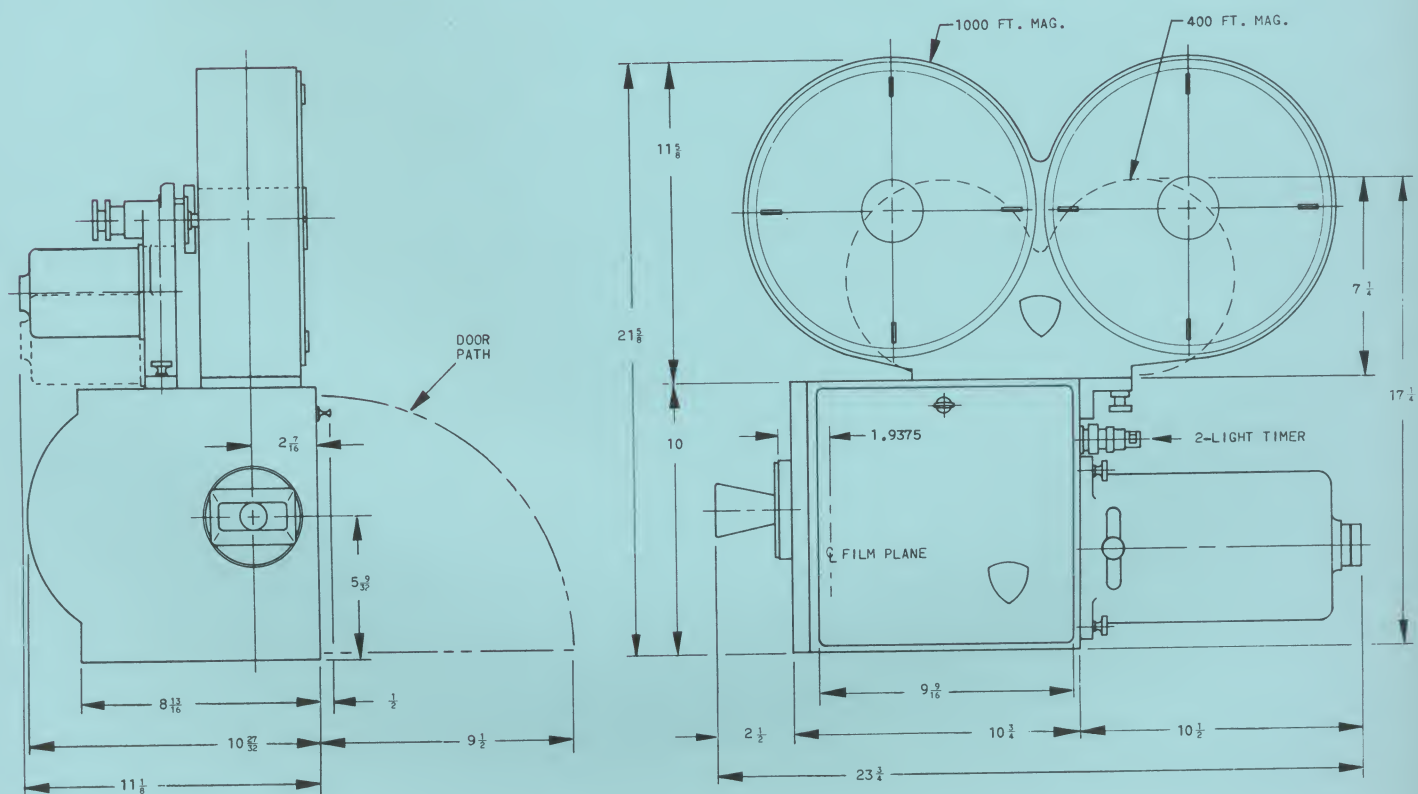
Weight: 95 pounds.

Mounting: base.

Standard equipment: synchronous motor and transmission, automatic take-up, buckle and runout switches, and footage counter.

Accessories: boresight tool, 2 light timer, spare shutters, 400 and 1000 foot magazines, and carrying cases.

Lenses: see 70MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-5B CAMERA complete with standard equipment\$7,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Aperture grid	75.00
2 light timer	200.00
Spare shutter	60.00
Boresight tool	300.00
400 foot magazine	350.00
1000 foot magazine	400.00
Carrying case, camera	95.00
Carrying case, accessory	77.50
Carrying case, 400 ft. magazine	59.00
Carrying case, 1000 ft. magazine	70.00
Control box	425.00

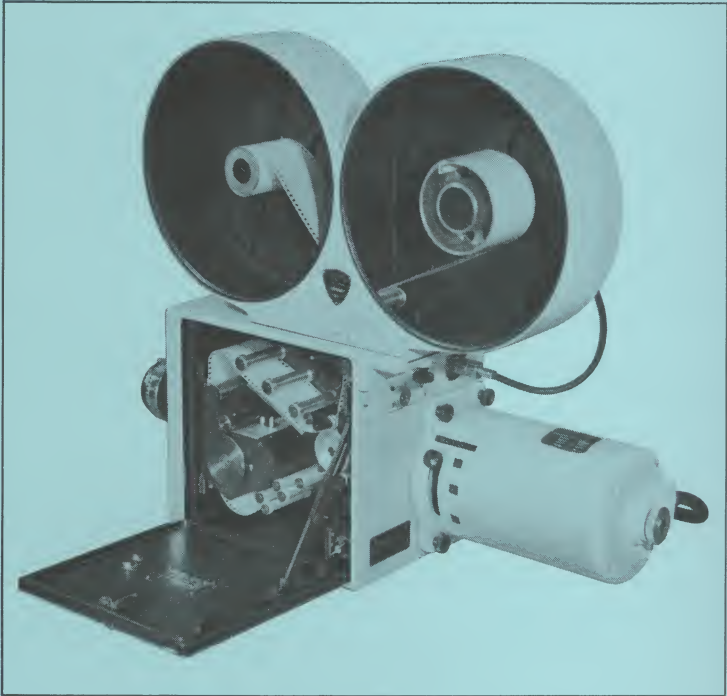
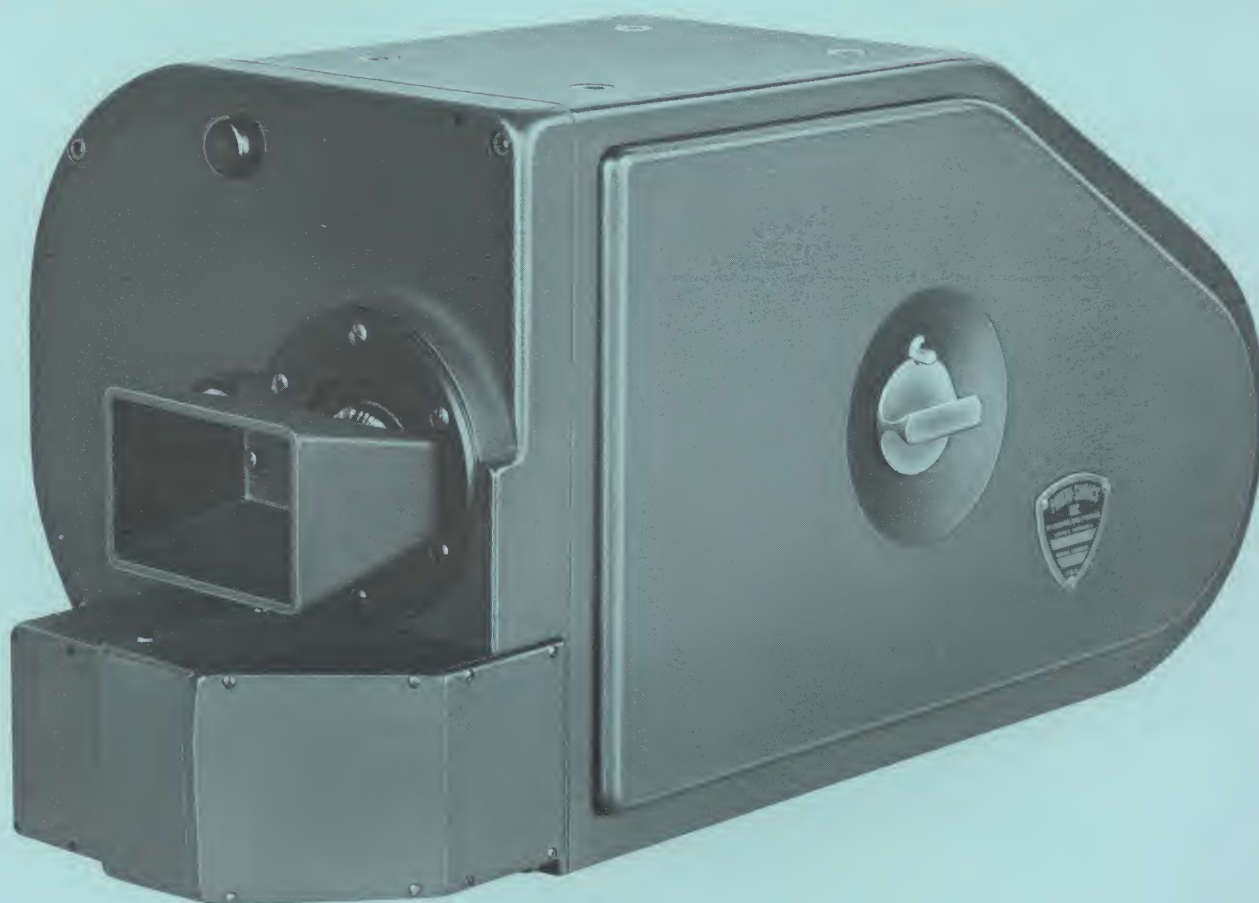


PHOTO-SONICS

70MM-5B

70MM-5C

RECORDING CAMERA



The Photo-Sonics 70mm-5C Recording Camera is designed to produce a high quality, high resolution motion picture in a 1.156 x 2.25 inch format. The film is transported by a high precision film movement which holds the film stationary during the exposure by means of accurately aligned registration pins.

The camera's compactness and the swiveling eyepiece on the boresight tool permit a wide choice of mounting positions.

The 5C may be equipped with thermostatically controlled heaters for low temperature operation. In actual test, this camera has operated properly after being exposed to —65 degrees fahrenheit for a period of three hours.

Frame rate: to 60 frames per second.

Aperture size: 1.56 x 2.25 inches.

Film specification: ASA PH 1.20-1956, type I perforation.

Film capacity: 200 foot daylight load.

Film transport: intermittent with register pins.

Shutter: fixed opening rotating disk, 120 degrees maximum.

Motor: optional 24V DC or 115 V DC.

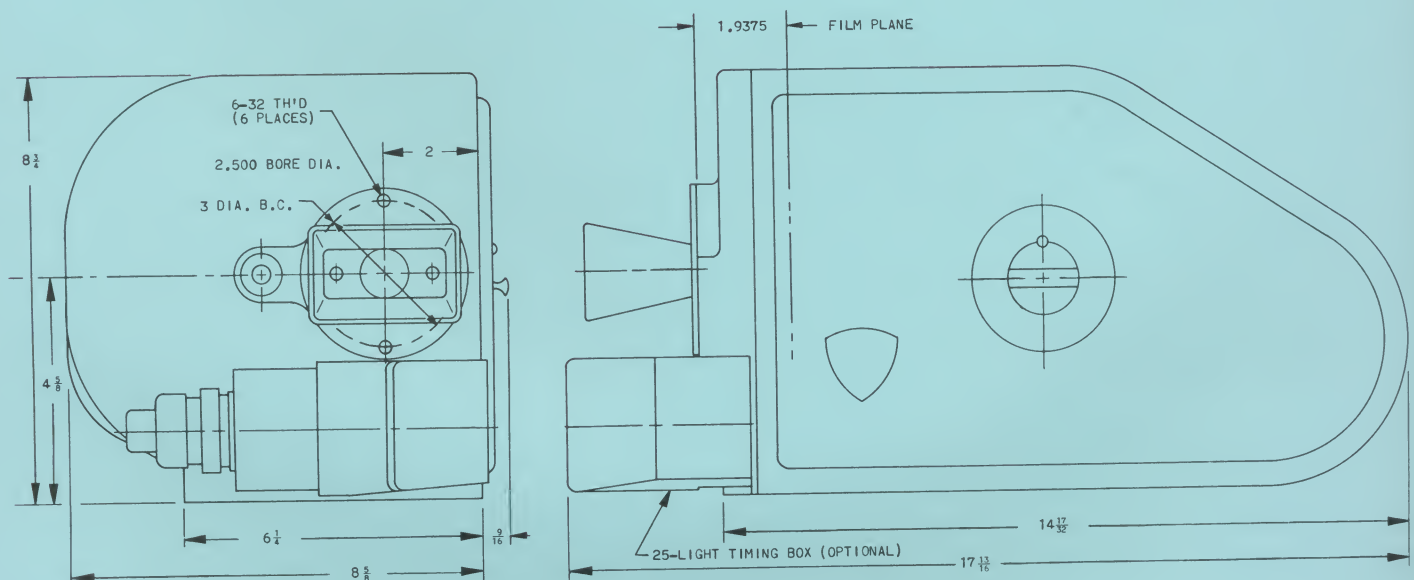
Weight: 54 pounds.

Mounting: base.

Standard equipment: 24 volt, DC motor, shutter, buckle and runout switches.

Accessories: boresight tool, 2 light timer, aperture grid, spare shutters, carrying cases, and spare film spools.

Lenses: see 70MM Lens Data Sheet.



MOUNTING: TOP, SIDE, & BOTTOM HAVING 4-3/8-16 TH'D INSERTS EACH. (ONE CENTRALLY LOCATED ON BOTTOM FOR TRIPOD MOUNTING)

PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-5C CAMERA complete with standard equipment\$6,500.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Boresight tool	350.00
25 light timer	350.00
Spare shutter	60.00
Aperture grid	75.00
Carrying case	55.00
Spare 200 ft. daylight film spools	28.00
Control box, 115 volt DC	250.00
Three speed drive motor (10, 20, and 30 fps).....	600.00
Three speed, 120 volt, single phase control box.....	680.00
Two light timer.....	200.00



PHOTO-SONICS
70MM-5C

70MM-5D

RECORDING CAMERA



PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The 5D comes equipped with a variable disk shutter, two speed drive motor and built in 1000 foot automatic take up. Boresighting, alignment and viewing are accomplished by the use of an accessory boresight tool or a full frame viewer.

Lenses: See 70mm Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM 5D CAMERA complete with standard equipment.....\$8,000.00

ACCESSORIES AND OPTIONAL EQUIPMENT

Full frame viewer.....	350.00
Fiducial markers.....	450.00
Two light timer.....	250.00
1000 foot magazine.....	850.00
Camera carrying case.....	112.00
Magazine carrying case.....	70.00
Accessory carrying case.....	92.00

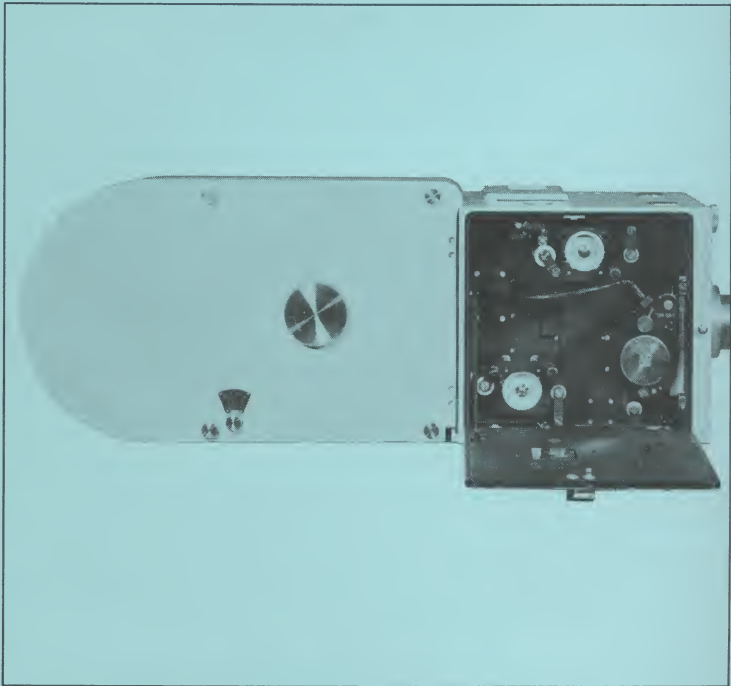


PHOTO-SONICS

70MM-5D

70MM-10A

RECORDING CAMERA

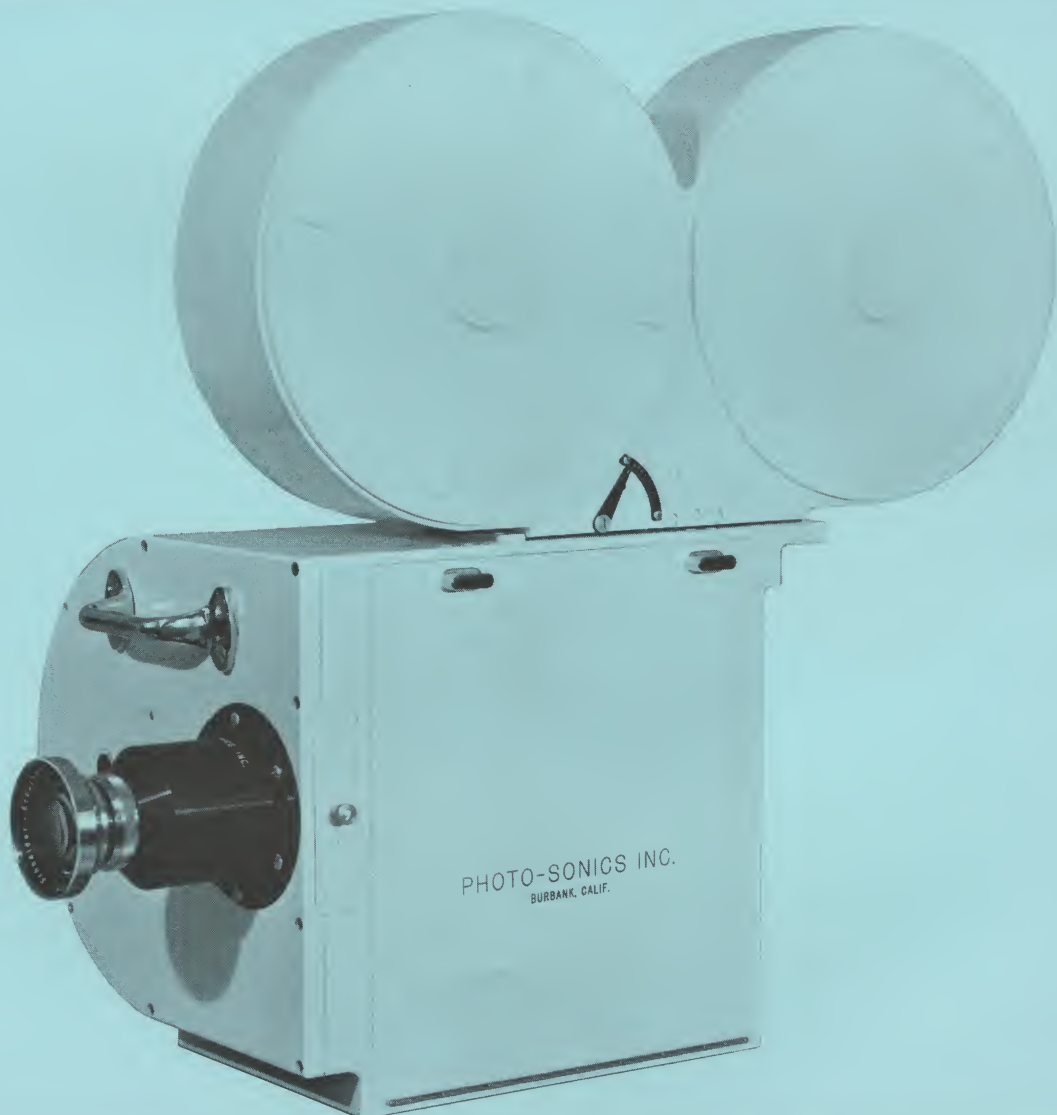


PHOTO-SONICS, INC.

820 SOUTH MARIPOSA STREET, BURBANK, CALIFORNIA

Victoria 9-6251

The Photo-Sonics 70mm-10A Recording Camera is designed to produce high quality, high resolution motion pictures on a 2.25 x 2.25 inch format at speeds from 10 to 80 frames per second.

The film is transported by a high precision intermittent film movement and the film is held stationary during the exposure by registration pins. A vacuum back is built in to hold the film perfectly flat during the exposure. The camera comes equipped with a synchronous motor that will drive it at 60 frames per second. A variety of motor/transmission combinations are available to cover the full range of frame rates.

The shutter is adjustable from 0 to 120 degrees

in eleven varying increments. The shutter may be changed while the camera is running.

The camera may be supplied in a left hand version when space requirements rule out the standard version.

Frame rate: 10 to 80 frames per second.

Aperture size: 2.25 x 2.25 inches.

Film specification: ASA PH 1.20-1956, type I perforation.

Film capacity: 400 and 1000 foot dark room loading magazines.

Film transport: intermittent with register pins.

Shutter: adjustable opening rotary disk, 120 degree maximum opening.

Motor: optional 110V 1 ϕ or 208V 3 ϕ .

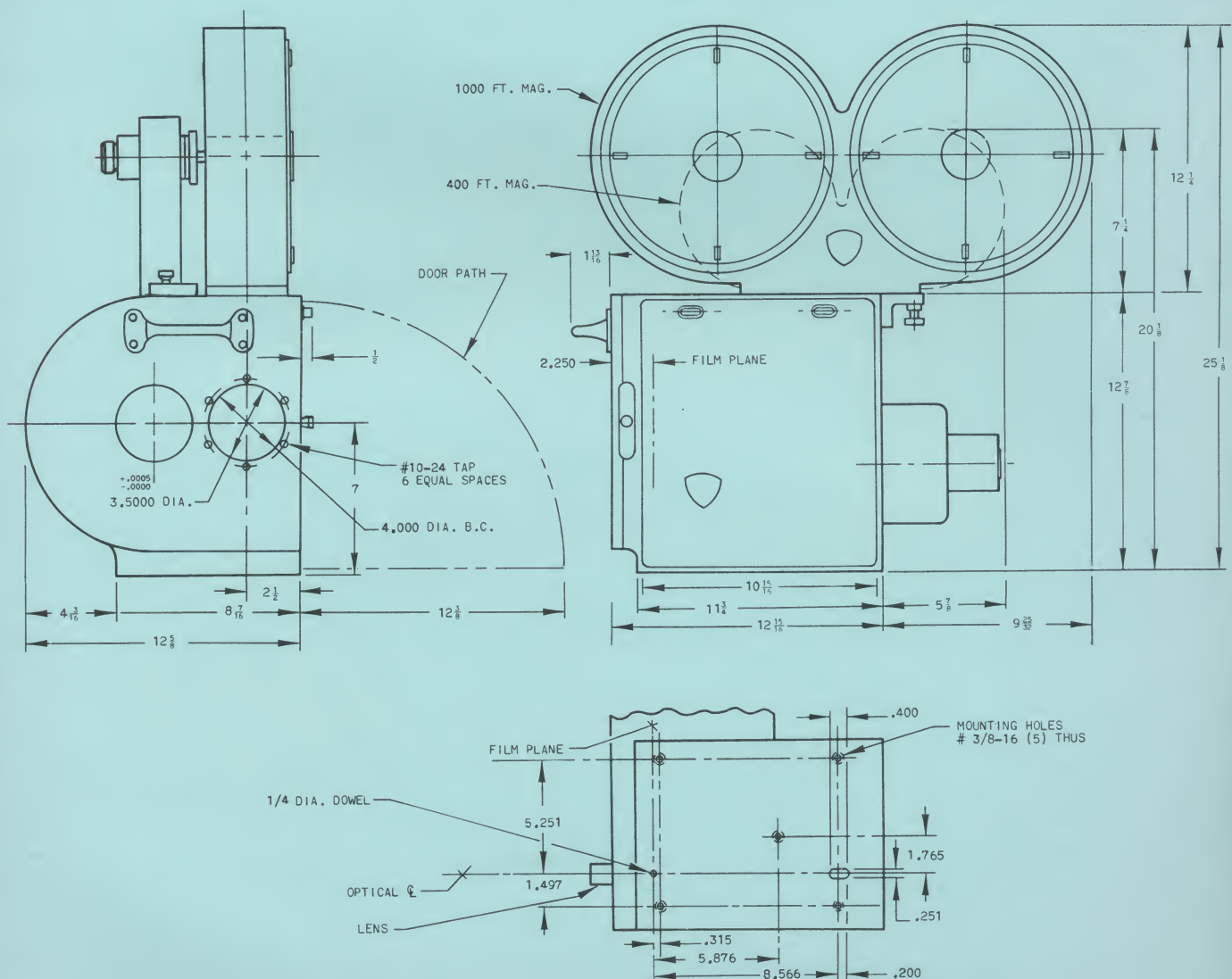
Weight: aluminum—135 lbs., magnesium—120 lbs.

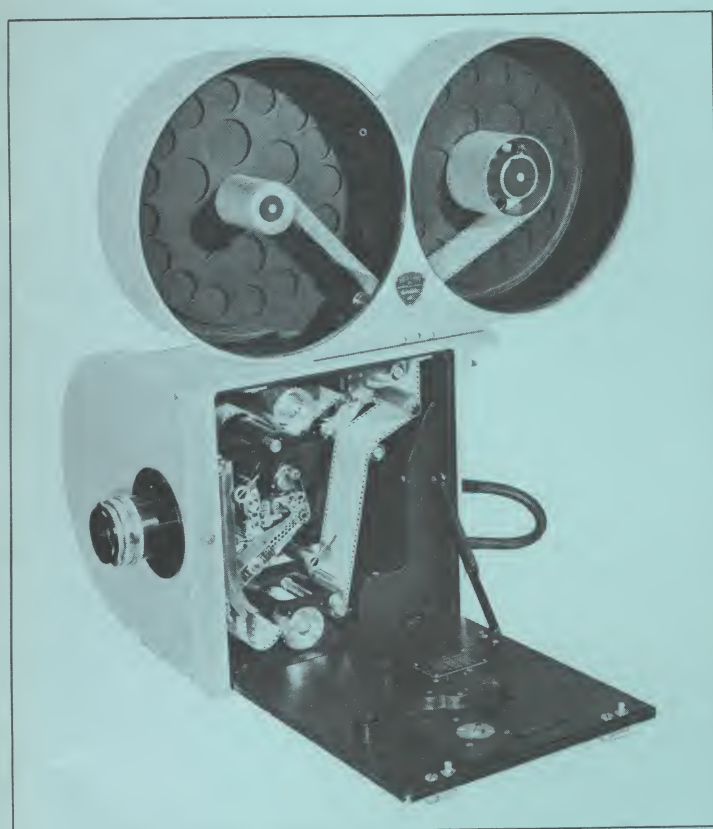
Mounting: base.

Standard equipment: adjustable shutter, 400/1000 foot take-up, buckle and runout switches, footage counter, and filter holder.

Accessories: 400 and 1000 foot magazines, fiducial markers, 2 light timer, control box, 20X boresight tool, transmission, and carrying cases.

Lenses: see 70MM Lens Data Sheet.





PRICES (July 1, 1963) subject to change without notice — net FOB Burbank, Calif.

70MM-10A CAMERA complete with standard equipment \$12,000.00

left hand model complete with standard equipment..... 13,200.00

ACCESSORIES AND OPTIONAL EQUIPMENT

2 light timer	200.00
20X boresight tool	350.00
400 foot magazine	350.00
400 foot magazine, left hand	400.00
1000 foot magazine	400.00
1000 foot magazine, left hand	460.00
Fiducial markers	160.00
Illuminated fiducial markers	360.00
Shutter pulse generator	200.00
Control box and cable	425.00
30/60 fps transmission	475.00
20/40/60 fps transmission	600.00
10/15/30/45/60 fps transmission	750.00
20/40/60/80 fps transmission	900.00
Camera carrying case	112.00
Accessory carrying case	92.00
400 foot magazine carrying case	59.00
1000 foot magazine carrying case	70.00

*6 to 60 fps continuously variable drive motor.

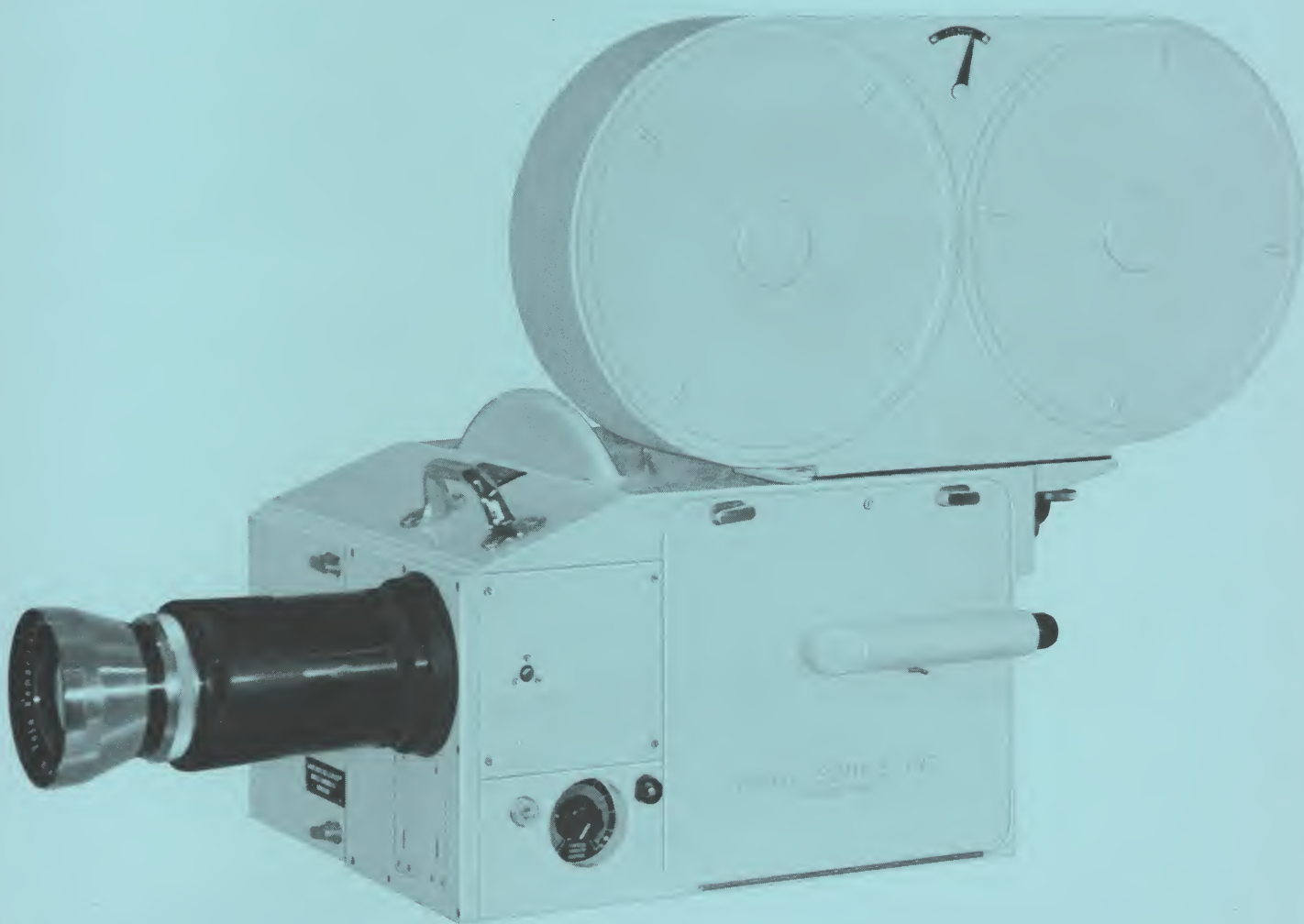
*Control box, variable speed.

PHOTO-SONICS

70MM-10A

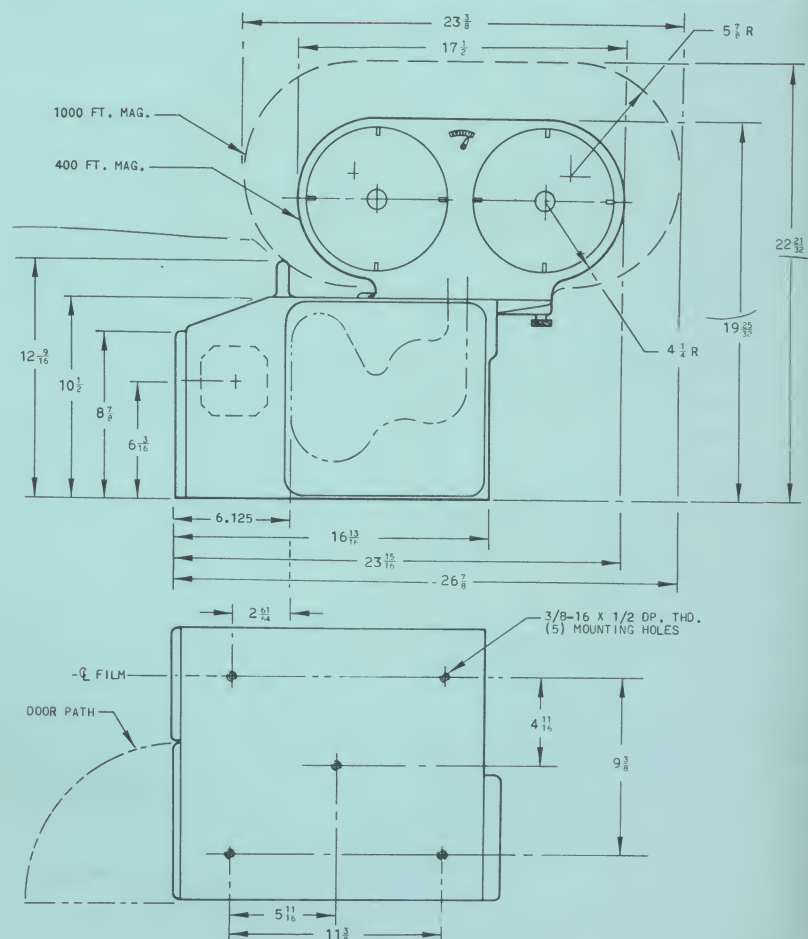
70MM-10B

Rotary Prism RECORDING CAMERA



When higher frame rates are required, the 10B can be conveniently converted to a half frame 70mm (1-1/8 x 2-1/4 inch format) by changing to an eight-sided prism and a four opening shutter, resulting in frame rates of 360 and 720 frames per second. The camera may be converted to a Ballistic Synchro or Streak camera by removing the prism and rotary disk shutter and installing a slit aperture near the film plane.

Lenses: see 70MM Lens Data Sheet.



PRICES (July 1, 1963) subject to change without notice—net FOB Burbank, Calif.

70MM-10B CAMERA complete with standard equipment \$14,560.00

ACCESSORIES AND OPTIONAL EQUIPMENT



1000 foot magazine	495.00
1000 foot take-up and brake	765.00
Timing lights	450.00
Fiducial markers	450.00
Camera control box	765.00
Control box modification for 90 and 180 fps	90.00
Low speed motor, 90 and 180 fps	825.00
400 foot magazine	450.00
400 foot take-up and brake	740.00
Spare shutters, 1, 15, 30 degree	95.00 ea.
Tracking finder	475.00
1000 foot film spool	75.00
400 foot film spool	65.00
Half frame conversion kit, 360 and 720 fps	3,400.00
Four opening shutters, 1, 15 and 30 degrees	115.00 ea.
Aperture mask	85.00
Tool and spare parts kit	125.00
Camera carrying case	180.00
Magazine carrying case	65.00
Accessory carrying case	90.00
Take-up carrying case	45.00
2000 foot magazine	985.00
2000 foot take-up and brake	1,235.00
Full frame conversion kit	3,100.00

*Drive motor — 208 volt, 3 phase, 400 cycles.

*Control box — 208 volt, 3 phase, 400 cycles.

*Take-up — 500 foot, 208 volt, 3 phase, 400 cycles.

*Take-up — 1000 foot, 208 volt, 3 phase, 400 cycles.

*Drive motor — 110 volt DC.

*Control box — 110 volt DC.

*Take-up — 500 foot, 110 volt DC.

*Take-up — 1000 foot, 110 volt DC.

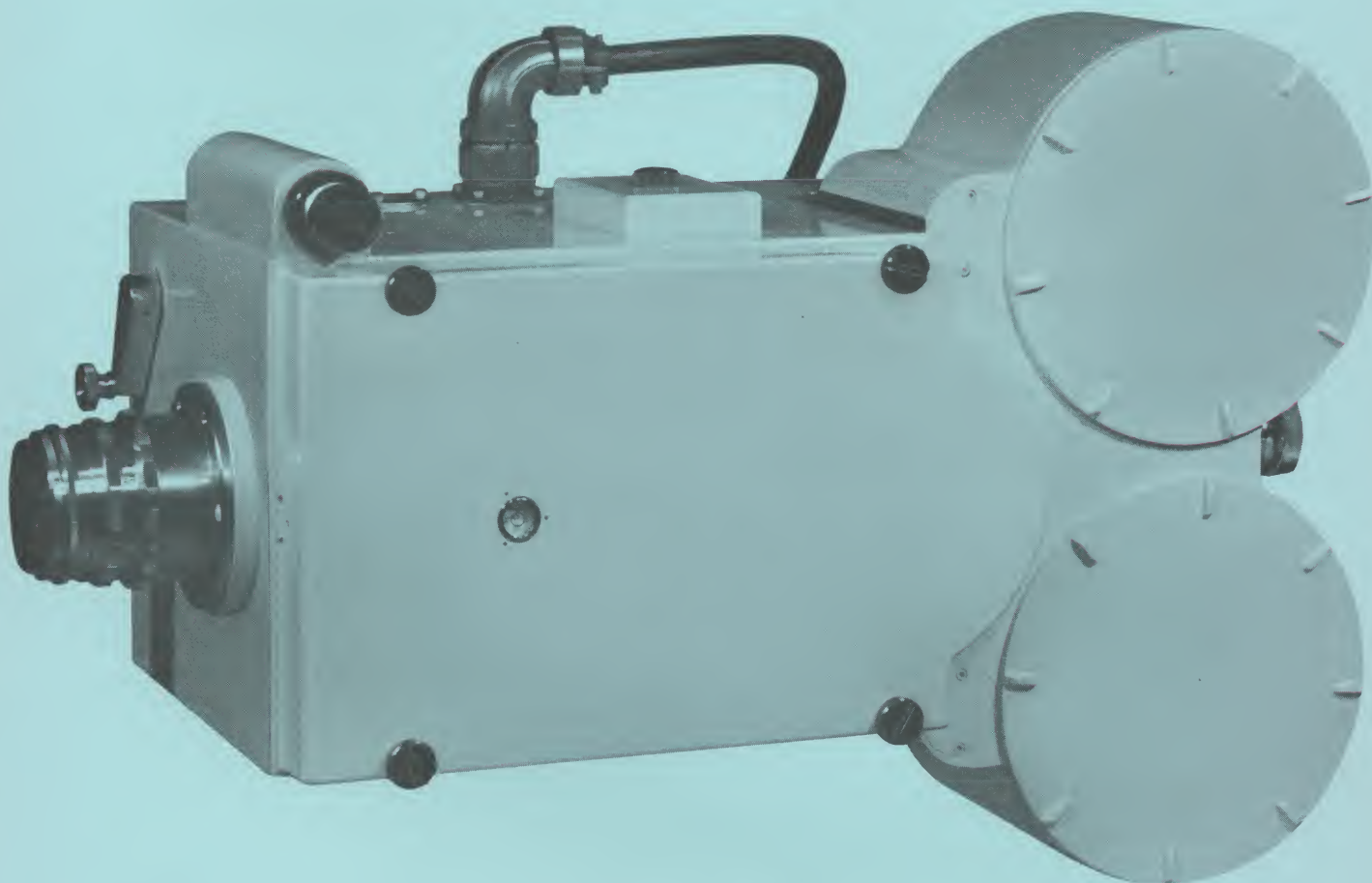
*Price and outline drawing on request.

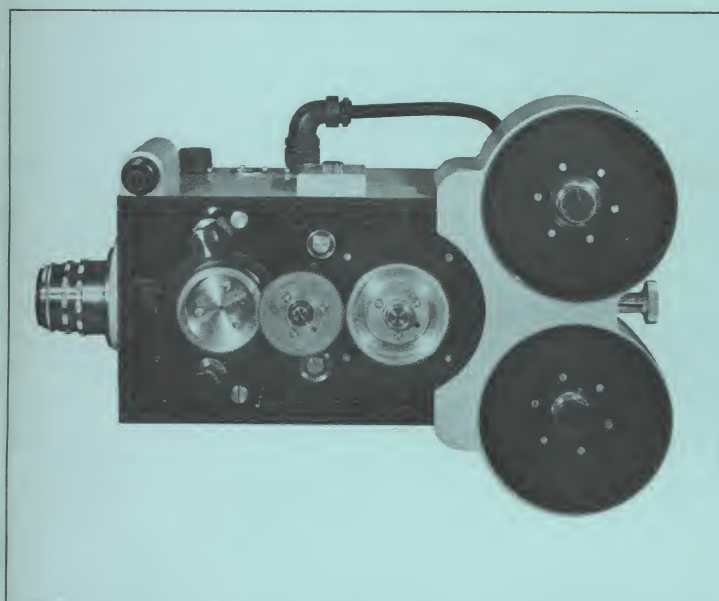
PHOTO-SONICS

70MM-10B

70MM-CFA

RECORDING CAMERA





PRICES (July 1, 1963) subject to change without notice — net FOB Burbank, Calif.

70MM-CFA CAMERA complete with standard equipment
(208 volt, 3 phase, 3600 rpm power input).....\$6,400.00

(Other power inputs available — prices on request)

ACCESSORIES AND OPTIONAL EQUIPMENT

35mm conversion kit.....	855.00
900 rpm low speed drive motor.....	900.00
200 foot magazines (without film spools).....	475.00
Spare 70mm film spools.....	95.00 ea.
Spare 35mm film spools.....	95.00 ea.
Spare slit apertures.....	55.00 ea.
Camera carrying case.....	90.00
Magazine carrying case.....	65.00
Accessory carrying case.....	65.00
1000 foot magazine.....	825.00
1000 foot take-up arm, right or left hand.....	240.00
200 foot take-up arm, right or left hand.....	210.00
*Drive motor — 208 volt, 3 phase, 400 cycles.	
*Take-up motor — 208 volt, 3 phase, 400 cycles.	
*Control box — 208 volt, 3 phase, 400 cycles.	

PHOTO-SONICS

70MM-CFA



LENSES

70MM-1A, 1B, 4A, 5B, 5C, 10A std.

LENS			MOUNT	PRICE
50mm	f/3.5	Nikkor	Focusing mount, flange	\$500.00
80mm	f/2.8	Xenotar	Focusing mount, bayonet	390.00
105mm	f/2.8	Xenotar	Focusing mount, bayonet	400.00
105mm	f/2.8	Xenotar	Fixed focus, bayonet	225.00
150mm	f/2.8	Xenotar	Fixed focus, bayonet	350.00
150mm	f/2.8	Xenotar	Focusing mount, bayonet	525.00
180mm	f/2.5	Nikkor (1/2 frame only)	Focusing mount, flange	**
250mm	f/4	Nikkor	Focusing mount, bayonet	770.00
360mm	f/5.6	Tele-Xenar	Focusing mount, bayonet	395.00
*500mm	f/5.6	Nikkor	Focusing mount, flange	**

All lenses marked "Bayonet" will fit the Photo-Sonics "Interrupted Thread" type bayonet lens mount. Photo-Sonics cameras supplied with other types of lens mounts may be converted by simply installing mount p/n 46-1048-1 for the above listed cameras and the -3 mount for the 70mm-10A camera with illuminated fiducial markers.

Bayonet type lens mount p/n 46-1048-1, \$85.00.

Bayonet type lens mount p/n 46-1048-3, \$85.00.

Lenses other than those listed above can be furnished. Please state your requirements.

Prices (October 1, 1964) are net FOB Burbank, California, and subject to change without notice.

70MM-10B

LENS			MOUNT	PRICE
180mm	f/2.5	Nikkor (1/2 frame only)	Focusing mount, flange	**
250mm	f/4	Nikkor	Focusing mount, flange	\$770.00
*500mm	f/5.6	Nikkor	Focusing mount, flange	**

*This lens requires a lens support plate.

** Price and delivery on request.

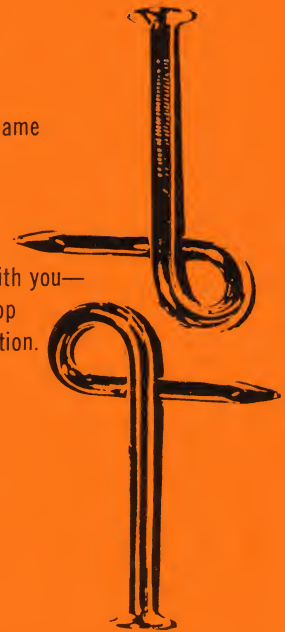


Solving difficult problems is our forte!

A few of the many highly specialized cameras designed and developed by Photo-Sonics to meet unusual customer specifications are shown below. They range in application from high altitude cameras to underwater units and demonstrate the versatility, ingenuity, and precision that have made the name Photo-Sonics synonymous with the finest quality photo instrumentation.

Whatever your instrumentation needs, let our highly specialized staff review them with you—we have the facilities and know-how to develop the best solution from design through production.

Contact us at the address below.



16mm Tube Camera (Sidewinder Missile)



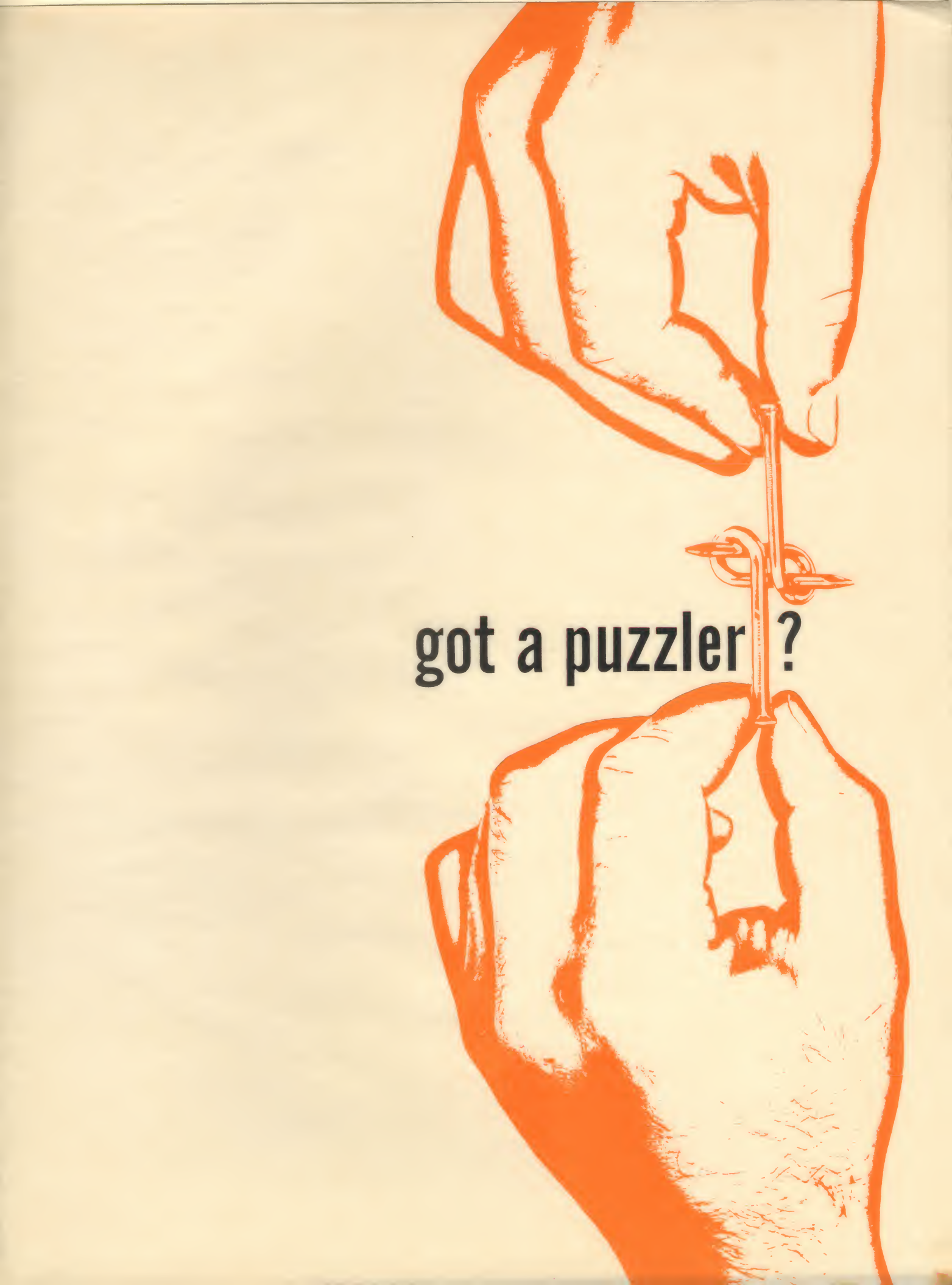
35mm Pulse Camera



16mm-1G
(Polaris Project)



35mm Sky Camera



got a puzzler ?